



Name	Olena Popova
Position, Department/Faculty	Associate Professor, Composite Structures and Aviation Materials, Rocket Space Technologies
Academic Degree, Academic Title	Candidate of Science in Engineering, Associate Professor
Email:	o.popova@khai.edu
Scopus Author ID:	
Web of Science ResearcherID:	[NZO-5324-2025]
ORCID iD:	[0009-0003-3599-2273]
Google Scholar:	[aRR3gjEAAAAJ]
ResearchGate:	[посилання]

EDUCATION:

Basic education (university, major, year of graduation):

Kharkiv Polytechnic Institute, Engineer-Physicist, 1988

Postgraduate/Doctoral studies:

PhD Thesis "The evaluation and prediction of microstructure, properties of the working layer of rolling rolls made of high-chromium cast iron", Major – Materials Science, 2002

Additional training, certification programs:

text

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

Since 2003 up to now, Associate Professor, Composite Structures and Aviation Materials Science department, National Aerospace University "KhAI", Kharkiv (Ukraine)

2002 – 2003, Major lecturer, Department Composite Structures and Aviation Materials Science department, National Aerospace University "KhAI", Kharkiv (Ukraine)

Teaching Experience:

Experience of educational and teaching work (in years) – 23

Experience in International or National Projects:

RESEARCH ACTIVITIES:

Main Research Areas:

Materials Science



Number of Publications (Scopus, WoS, others): 79

WoS – 4

1. Lalazarova N. Ways of increasing the machinability of high-strength cast iron / N. Lalazarova, G. Komarova, O. Afanasieva, O. Popova. 2023. DOI: 10.18664/1994-7852.209.2024.314345

2. Afanasieva O. Modeling laser processing of materials/ O. Afanasieva, N. Lalazarova, A. Chyhrin, O. Popova O. 2023. DOI: 10.30977/BUL.2219-5548.2023.103.0.151

Monographs, Textbooks:

1. Karpov Ya.S., Ostapchuk V.V., Popova O.G., Taranenko I.M. Engineering material science. Metals, polymers, ceramics, composites: textbook / edited by Karpov Ya.S. – Kharkiv, National Aerospace University "Kharkiv Aviation Institute", 2020. – 384 p.,

2. Ya. Karpov, V. Demenko, P. Lepikhin, O. Popova, V. Sikulskiy, A. Taran, I. Taranenko, T. Yastremska. Physical principles of structural materials selection. –Textbook. –Kharkiv: National aerospace university "Kharkiv aviation institute", 2004 – 403 p.

Participation in Scientific Conferences:

1. Popova O. G., The mechanism for forming the structure of metal nanocomposites. 2022 .

<https://mf.khadi.kharkov.ua/fileadmin/F->

MECHANIC/%D0%A2%D0%B5%D1%85%D0%BD%D0%BE%D0%BB%D0%BE%D0%B3%D1%96%D1%97_%D0%BC%D0%B5%D1%82%D0%B0%D0%BB%D1%96%D0%B2_%D1%82%D0%B0_%D0%BC%D0%B0%D1%82%D0%B5%D1%80%D1%96%D0%B0%D0%BB%D0%BE%D0%B7%D0%BD%D0%B0%D0%B2%D1%81%D1%82%D0%B2%D0%B0/2022-2023/%D0%9F%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%BC%D0%B0_%D0%BA%D0%BE%D0%BD%D1%84_2022_1.pdf

2. Lalazarova N. O., Omelchenko V.V., Popova O. G. Improving the machinability of high-chromium cast iron. 2022. <https://mf.khadi.kharkov.ua/fileadmin/F->

MECHANIC/%D0%A2%D0%B5%D1%85%D0%BD%D0%BE%D0%BB%D0%BE%D0%B3%D1%96%D1%97_%D0%BC%D0%B5%D1%82%D0%B0%D0%BB%D1%96%D0%B2_%D1%82%D0%B0_%D0%BC%D0%B0%D1%82%D0%B5%D1%80%D1%96%D0%B0%D0%BB%D0%BE%D0%B7%D0%BD%D0%B0%D0%B2%D1%81%D1%82%D0%B2%D0%B0/2022-2023/%D0%A1%D0%91%D0%9E%D0%A0%D0%9D%D0%98%D0%9A_1.pdf

3. Popova O. G. Features of the structure of high-chromium alloys for ball mill balls. 2023.

<https://mf.khadi.kharkov.ua/fileadmin/F->

MECHANIC/%D0%A2%D0%B5%D1%85%D0%BD%D0%BE%D0%BB%D0%BE%D0%B3%D1%96%D1%97_%D0%BC%D0%B5%D1%82%D0%B0%D0%BB%D1%96%D0%B2_%D1%82%D0%B0_%D0%BC%D0%B0%D1%82%D0%B5%D1%80%D1%96%D0%B0%D0%BB%D0%BE%D0%B7%D0%BD%D0%B0%D0%B2%D1%81%D1%82%D0%B2%D0%B0/2023-2024/%D0%9F%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%BC%D0%B0_%D0%BA%D0%BE%D0%BD%D1%84_%D0%A2%D0%9C%D1%96%D0%9C_09.2023.pdf

4. Besedin U.I., Popova O. G. Heat treatment regime for high-chromium cast iron rolling rolls. 2024. <https://mf.khadi.kharkov.ua/fileadmin/F->

MECHANIC/%D0%A2%D0%B5%D1%85%D0%BD%D0%BE%D0%BB%D0%BE%D0%B3%D1%96%D1%97_%D0%BC%D0%B5%D1%82%D0%B0%D0%BB%D1%96%D0%B2_%D1%82%D0%B0_%D0%BC%D0%B0%D1%82%D0%B5%D1%80%D1%96%D0%B0%D0%BB%D0%BE%D0%B7%D0%BD%D0%B0%D0%B2%D1%81%D1%82%D0%B2%D0%B0/2023-2024/%D0%9F%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%BC%D0%B0_%D0%BA%D0

%BE%D0%BD%D1%84_%D0%BC%D0%BE%D0%BB_%D0%B2%D1%87%D0%B5%D0%BD%D0%B8%D1%85_2024.pdf

5. Lalazarova N. O., Krivenko A.A., Afanaceva O.V. Popova O. G., Local surface hardening of high-strength cast iron. 2024 https://mf.khadi.kharkov.ua/fileadmin/F-MECHANIC/%D0%A2%D0%B5%D1%85%D0%BD%D0%BE%D0%BB%D0%BE%D0%B3%D1%96%D1%97_%D0%BC%D0%B5%D1%82%D0%B0%D0%BB%D1%96%D0%B2_%D1%82%D0%B0_%D0%BC%D0%B0%D1%82%D0%B5%D1%80%D1%96%D0%B0%D0%BB%D0%BE%D0%B7%D0%BD%D0%B0%D0%B2%D1%81%D1%82%D0%B2%D0%B0/2024-2025/%D0%9F%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%B0_%D0%BA%D0%BE%D0%BD%D1%84_%D0%A2%D0%9C%D1%96%D0%9C_26-27.09.2024__1_.pdf

TEACHING ACTIVITIES:

Courses Taught:

Materials Science (150 hrs), Aviation Materials (96 hrs), Electrotechnical Materials (108 hrs), Quality control of composite structures (90 hrs), Intellectual property (90 hrs), Modern materials and modification of their properties (90 hrs),

Author Courses, Academic Programs:

Modern materials and modification of their properties (90 hrs)

Methodological Materials, Textbooks:

1. Non-destructive inspection of composite structures [Electronic resource]: textbook / O. G. Popova, M. A. Shevtsova, I. M. Taranenko. – Kharkiv : National Aerospace University «Kharkiv Aviation Institute», 2023. – 77 p., http://library.khai.edu/library/fulltexts/metod/NDI_Composites.pdf.
2. Material Science [Electronic resource] : workbook / V. V. Ostapchuk, O. G. Popova, I. M. Taranenko. – Kharkiv : National Aerospace University «Kharkiv Aviation Institute», 2022. – 129 p., http://library.khai.edu/library/fulltexts/metod/Popova_Navch_Posibnyk_Zvity_Materialoznavstvo.pdf.

GRANTS AND PROJECTS:

Participation in International and National Projects:

Grants, Scholarships, Academic Mobility Programs:

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

Distinctions, Awards, Prizes:

Membership in Professional Associations:

INTERNATIONAL ACTIVITIES:



Internships:

Cooperation with Foreign Universities:

Teaching/Lecturing Abroad:

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

1. Lalazarova N. Ways of increasing the machinability of high-strength cast iron / N. Lalazarova, G. Komarova, O. Afanasieva, O. Popova. 2023. DOI: 10.18664/1994-7852.209.2024.314345

2. Afanasieva O. Modeling laser processing of materials/ O. Afanasieva, N. Lalazarova, A. Chyhrin, O. Popova O. 2023. DOI: 10.30977/BUL.2219-5548.2023.103.0.151

Books, Chapters in Collective Monographs:

1. Karpov Ya.S., Ostapchuk V.V., Popova O.G., Taranenko I.M. Engineering material science. Metals, polymers, ceramics, composites: textbook / edited by Karpov Ya.S. – Kharkiv, National Aerospace University "Kharkiv Aviation Institute", 2020. – 384 p.,

Links to Citation Database Profiles:

ADDITIONAL INFORMATION:

Language Proficiency:

Ukrainian, B2 level

IT Skills:

MS Office,

Social and Community Activities: