



Name	Hanna Koloskova
Position, Department/Faculty	Head of Department, Department of Rocket Design and Engineering
Academic Degree, Academic Title	Candidate of Technical Sciences (Ph. D.), Associate Professor of the Department of Rocket Design and Engineering
Email:	ivanova@khai.edu
Scopus Author ID:	57201474889
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ORCID iD:	0000-0001-7118-0115
Google Scholar:	https://scholar.google.com.ua/citations?hl=uk&user=SYGEMkkAAAAJ
ResearchGate:	-

EDUCATION:

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

National Aerospace University "Kharkov Aviation Institute", Kharkiv, Ukraine
Master Degree in Aerospace Engineering
[2001]

Postgraduate/Doctoral studies:

Candidate of Technical Sciences
[2005]

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

National Aerospace University "Kharkiv Aviation Institute" Kharkiv, Ukraine
Senior Researcher
[2004 - 2005]

National Aerospace University "Kharkiv Aviation Institute" Kharkiv, Ukraine
Professor Assistant
[2005 - 2010]

National Aerospace University "Kharkiv Aviation Institute" Kharkiv, Ukraine
Senior Lecturer and Associate Professor
[2010 - 2020]

National Aerospace University "Kharkiv Aviation Institute" Kharkiv, Ukraine
Head of the Department
[2020 - nowadays]

Teaching Experience:



30 years

RESEARCH ACTIVITIES:

Main Research Areas:

materials science, aircraft design and engineering, aircraft power plant

Number of Publications (Scopus, WoS, others):

More than 50

Monographs, Textbooks:

Participation in Scientific Conferences:

New leading technologies in machine building [2020]

Людина і космос [2023, 2024, 2025]

Авіація, промисловість, суспільство [2024, 2025]

TEACHING ACTIVITIES:

Courses Taught:

Design and construction of liquid rocket engines

Construction and design of solid rocket motor

Aircraft complexes

Optimal design methods

General structure of rocket and space technology

Planning, organizing and reporting research activities

Author Courses, Academic Programs:

Construction and design of solid rocket motor

Optimal design methods

General structure of rocket and space technology

Modeling of thermogas and aerodynamic processes

Methodological Materials, Textbooks:

Tsiryuk O., Koloskova H. Construction of missiles and their systems. Part 1. 2024

Tsiryuk O., Koloskova H. Construction of missiles and their systems. Part 2. 2025

Sereda V., Koloskova H. Calculation of non-stationary processes of solid-fuel rocket engines. 2023

Okolota M., Koloskova H. Engineering fundamentals of aerospace technology. General structure of its facilities. 2004

Okolota M., Koloskova H. Designing an unmanned aerial vehicle using the statistical method. 2008

Okolota M., Koloskova H. Preliminary design of fuel charges for dual-mode propulsion systems of unmanned aerial vehicles. 2010

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Distinctions, Awards, Prizes:



NATIONAL AEROSPACE UNIVERSITY
«KHARKIV AVIATION INSTITUTE»





Laureate of the Ukraine President Award for Young Scientists [2008]

INTERNATIONAL ACTIVITIES:

Internships:

Polytechnic University of Bialystok, Poland, topic "Innovative approach in technical sciences: current state and development prospects" [2021]

SELECTED PUBLICATIONS:

1. Koloskova, G.M. Modelling of impact of temperature gradient on content of polymer ampoule during its forming / G.M. Koloskova, V.Yu. Koloskov // Journal of Achievements in Materials and Manufacturing Engineering 2020; 1 (100): 12-19.
2. Research of Properties and Rational Composition of Ecosafe Building Materials with Ash and Slag Waste from Masute Fuel and Coal Combustion / Kondratenko O., Koloskov V., Koloskova H., Babakin V. // Key Engineering Materials, Volume 953, 2023. pg. 85-97
3. Development and generalization of the method for calculating thermodynamic properties and phase equilibrium in hydrocarbon mixtures as fuels for reciprocating ice with the purpose of their ecologization / Kondratenko O., Umerenkova K., Koloskov V., Koloskova H., Stokov O., Lytvynenko O. //
4. Didovets Yu., Koloskov V., Bandurian B., Koloskova H.. Method of Investigation of Soil Contamination with Heavy Metals at the Sites of Explosions. Key Engineering Materials 2024. Vol. 988, pp 107-116
5. Vekshyn V., Koloskov V., Koloskova H., Sincheskul O. Preparation Method of a Metal Carrier for a Catalyst for the Recovery of Exhaust Gases from Nitrogen Oxides. Solid State Phenomena 2024. Vol. 364, pp 57-71
6. О.О. Літвінов, Г.М. Колоскова, О.М. Кондратенко Оптимізація параметрів охолоджувального тракту камери згоряння рідинного ракетного двигуна. Вісник дніпровського університету. Серія ракетно-космічна техніка. №4, Т. 33, Випуск 28, 2024. Стор. 38-44
7. Using of Hydrogen Sorption Storing Technology Based on Metal Hydrides for Cooling of High-Power Electric Generators with Steam Turbines Umerenkova, K., Kondratenko, O., Koloskova, H., Lytvynenko, O., Borysenko, V. Advances in Science and Technology, 2024, Volume 156.P. 103-115

ADDITIONAL INFORMATION:

Language Proficiency:

Mother tongue(s): Ukrainian

Other language(s): English (B2); Russian (Fluent)

IT Skills:

SolidWorks / Autodesk Inventor / Mathcad / Corel / Microsoft Office / Zoom work place / Google work space

