



Anna Yakovlieva

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ABOUT ME

Research Fellow and Associate Professor specializing in sustainable aviation fuels (SAF), hydrogen transport technologies, and recycling of transport operational materials. Principal Investigator and project leader of national and international R&D projects funded by Horizon Europe, NATO SPS, and national research agencies. Author of peer-reviewed publications in the field of alternative aviation fuels and fuel reformulation technologies. Experienced in grant writing, curriculum development, and supervision of MSc and PhD students.

WORK EXPERIENCE

Technical university of Kosice – Kosice, Slovakia

Research fellow

[01/12/2022 – Current]

Researches in the field of development and application of alternative aviation fuels, recycling and utilization of transport and operation materials, hydrogen use for propulsion of air transport

Igor Sikorsky Kyiv Polytechnic Institute – Kyiv, Ukraine

Associate Professor

[02/10/2022 – Current]

Part-time work

Associate Professor of the department of Automation of electric and mechatronic complexes - teaching subjects in the fields of Hydrogen technologies and Alternative energy sources.

National aviation university – Kyiv, Ukraine

Leading research fellow, Associate Professor

[01/12/2020 – 31/12/2023]

Leading research fellow - leader of the R&D Project on development of alternative jet fuels
Associate Professor of the department of Chemistry and chemical technology - teaching subjects in the field of Chemical technology of conventional and alternative motor fuels and lubricants; Guarantee of the Bachelor education program Chemical technology of alternative energy sources

National aviation university – Kyiv, Ukraine

Vice-dean of faculty, leading research fellow

[01/11/2019 – 30/11/2020]

Vice-dean for scientific work and international cooperation at the Faculty of environmental safety, engineering and technologies.

Head of the R&D Project on development of alternative jet fuels

 **National aviation university** – Kyiv, Ukraine

Associate Professor, leading research fellow

[01/07/2017 – 31/10/2019]

Associate Professor of the department of Ecology, later department of Chemistry and chemical technology - teaching subjects in the fields of Alternative energy sources, Recycling and utilization of fuels and lubricants, and Chemical technology of conventional and alternative motor fuels.
Head of the R&D Project on development of alternative jet fuels.

 **National aviation university** – Kyiv, Ukraine

Assistant Professor, research fellow

[01/11/2013 – 30/06/2017]

Assistant Professor of the department of Ecology - teaching subjects in the fields of Recycling and utilization of transport, Alternative energy sources, and Chemical technology of conventional and alternative motor fuels.
Executive researcher of R&D projects devoted to development of alternative jet fuels

EDUCATION AND TRAINING

Senior researcher (Associate Professor)

National aviation university [20/12/2022]

City: Kyiv | Country: Ukraine | Website: www.nau.edu.ua

Doctor in engineering

Rzeszow university of technology [01/07/2015 – 30/09/2018]

Address: al. Powstancow Warszawy, 12, Rzeszow (Poland) | Website: www.prz.edu.pl

Candidate of technical sciences (PhD)

National aviation university [01/11/2010 – 31/10/2013]

Address: Liubomyr Huzar ave .1, 03058 Kyiv (Ukraine) | Website: www.nau.edu.ua

Bachelor and Master in ecology and environmental protection

National aviation university [01/09/2004 – 28/02/2010]

Address: Liubomyr Huzar ave .1 , 03058 Kyiv (Ukraine) | Website: www.nau.edu.ua

LANGUAGE SKILLS

Ukrainian: mother tongue; Russian: mother tongue

Write here the description...

English: C1, field specific; Slovak: B2; Polish: A2

PROJECTS

[01/01/2023 – Current]

EFACA - Environmentally Friendly Aviation for all Classes of Aircraft (GA no. 101056866) Role: ResearcherFunding: EU Horizon Europe

[01/01/2024 – Current]

Experimental apparatus for developing new methods and multimedia e-learning materials aimed at supporting education in the field of automotive radar systems (073TUKÉ-4/2024) Role: ResearcherFunding: Ministry of Education, Research, Development and Youth of the Slovak Republic

[08/10/2024 – 16/10/2024]

Capacity Building for a New Generation of Scientists in Energy Security and Climate Neutrality (No SPS.ASI.G7654) Role: Team member Funding: NATO Science for Peace and Security Programme

[01/01/2017 – 31/12/2020]

PARE – Perspectives for the Aeronautical Research in Europe Role: Researcher Funding: EU Horizon 2020

[01/01/2021 – 31/12/2023]

Development of new environmentally clean fuels for air transport complex and improvement of ground transport-logistic infrastructure for its use Role: Project Leader Funding: Ministry of Education and science of Ukraine

[01/01/2021 – 04/2021]

Long Term Confirmation of R+D+I Processes at the University of Dunaujvaros Role: Invited researcher Funding: co-financed by the European Union

[01/01/2018 – 31/12/2020]

Improvement of operation properties of jet fuels, energy and environmental safety of air transport Role: Researcher Funding: Ministry of Education and science of Ukraine

[01/10/2017 – 30/09/2020]

New reformulated aviation fuels from domestic renewable feedstock and technologies of its production Role: Project Leader Funding: Ministry of Education and science of Ukraine

[01/01/2016 – 31/12/2017]

Manufacturing of and application of high-efficient environmentally safe components of blended jet fuels Role: Researcher Funding: Ministry of Education and science of Ukraine

[01/12/2013 – 31/12/2014]

Development of the Directive technical requirements to aviation gasoline and jet fuel Role: Researcher Funding: Ministry of Energy and coal industry of Ukraine

RESEARCH METRICS

Publications: about 200

Scopus indexed: 49

Web of Science indexed: 27

h-index

Scopus: 9

Web of Science: 5

ORCID:

<https://orcid.org/0000-0002-7618-7129>

Scopus Author ID:

<https://www.scopus.com/authid/detail.uri?authorId=58123735900>

Web of Science ResearcherID:

<https://www.webofscience.com/wos/author/record/JBJ-5133-2023>

Participation in R&D Projects:

EU-funded projects: 3

National projects: 15

SCHOLARSHIPS

[01/12/2022 – 30/11/2025]

Scholarship for excellent researchers threatened by the war conflict in Ukraine

Institution: Technical University of Kosice, Slovakia

Funding: EU NextGenerationEU through the Recovery and Resilience Plan for Slovakia

[01/03/2022 – 30/11/2022]

The National Scholarship Programme of the Slovak Republic for the Support of Mobility of Students, PhD Students, University Teachers, Researchers and Artists

Institution: Technical University of Kosice, Slovakia

Funding: Ministry of Education, Science, Research and Sport of the Slovak Republic

INVITED LECTURES

[15/03/2017 – 15/06/2017]

Invited Lecturer at the Faculty of Transport engineering Vilnius Gediminas Technical University

Delivered course in Transport exploitation materials

[08/10/2024 – 16/10/2024]

Invited speaker within NATO Advanced Study Institute "Capacity Building for a New Generation of Scientists in Energy Security and Climate Neutrality"

Delivered speech on Prospects of hydrogen technologies implementation in aviation

NETWORKS AND MEMBERSHIPS

[01/09/2015 – Current] Kyiv

Public Organization "Scientific-technical union of chemmotologists" Vice-head on international collaboration

SKILLS

Research & Technical Expertise

Sustainable Aviation Fuels (SAF) development and reformulation / Alternative jet fuels from renewable feedstock / Hydrogen technologies for air transport / Chemical technology of liquid fuels / Laboratory testing of fuels and lubricants / Fuel characterization and physicochemical analysis / Quality control of aviation fuels / Waste-to-fuel technologies / Biodiesel production and feedstock

Academic & Leadership Competencies

Grant proposal preparation / Project management / supervising BSc, MSc and PhD students / Conducting research within national and European R&D projects / Experience in academic administration / International academic collaboration / Curriculum design and modernization of study courses / Organization of conferences, events, workshops / Development and accreditation support of Bachelor study programme

Digital Skills

Microsoft Office / proficient user of data analysis software Origin, SigmaPlot, QtiPlot / Jmol / Chemdraw / Graphical representation: QtiPlot, SciDAVis, Origin / Laboratory equipment for testing