



Name	Stanislav Kravchenko
Position, Department/Faculty	Senior Lecturer of the Department Aero-Hydrodynamics, faculty of aircraft engineering
Academic Degree, Academic Title	Doctor of Philosophy (H № 004381 from 17 December 2024), Specialty 134 – Aerospace Engineering, Field of Study 13 – Mechanical Engineering, 02 December 2024, National Aerospace University "Kharkiv Aviation Institute"
Email:	s.kravchenko@khai.edu
Scopus Author ID:	https://www.scopus.com/authid/detail.uri?authid=58880532300
Web of Science ResearcherID:	[ID]
ORCID iD:	https://orcid.org/0009-0009-6409-4767
Google Scholar:	https://scholar.google.com/citations?user=0MtEQbcAAAAJ&hl
ResearchGate:	[посилання]

EDUCATION:

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

Specialist (XA № 21370837 from 24 February 2003), Electronic Systems, February 2003, National Technical University "Kharkiv Polytechnic Institute"

Postgraduate/Doctoral studies:

Doctor of Philosophy (H № 004381 from 17 December 2024), Specialty 134 – Aerospace Engineering, Field of Study 13 – Mechanical Engineering, 02 December 2024, National Aerospace University "Kharkiv Aviation Institute"

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

Professional work experience for the last 10 years (in reverse chronological order - Dates [from - to], position, name of unit/department and institution/organization)

2025 – till the present time, Assistant of the Department of Aero-Hydrodynamics, National Aerospace University "Kharkiv Aviation Institute";

2022 – 2024, Postgraduate, National Aerospace University "Kharkiv Aviation Institute";

2022 – 2023, Head of the Laboratory of the Special Design Bureau of Turbogenerators JSC "Ukrainian Energy Machines";

2020 – 2022, Head of the Sector of the Research and Design Department of Turbogenerators and Hydrogenerators JSC "Plant "Electrovajmash";

2018 – 2020, Head of the Sector of the Research and Design Department of Turbogenerators, Hydrogenerators and large DC machines SE "Plant "Electrovajmash";

2012 – 2018, Head of the Group of the Department of Electromagnetic, Thermal and Mechanical Experimental Research and Testing of Turbogenerators, Hydrogenerators and large DC machines





SE "Plant "Electrovajmash"

Teaching Experience:

Since 2025;

Fundamentals of flight theory and rocket design

RESEARCH ACTIVITIES:

Main Research Areas:

1. Utility model patent No. 156013 "Stator of an Electric Machine" (Ukraine), co-author, 24 April 2024, <https://iprop-ua.com/inv/kbxb8jpi>.
2. Utility model patent No. 158317 "Cooling system of a capsule-type hydrogenerator" (Ukraine), co-author, 22 January 2025, <https://iprop-ua.com/inv/6eupjyg4>.

Number of Publications (Scopus, WoS, others):

more than ten

Monographs, Textbooks:

Monography:

Tretiak O.V., Kravchenko S.S. Analysis of the stress-strain state of high-power turbogenerators during operation in over-design modes, monograph, Kharkiv: National Aerospace University "Kharkiv Aviation Institute"; - Kharkiv: ME "City Printing House", 2024 – 206 p. ISBN 978-617-619-297-8., 6 printed sheets.

Participation in Scientific Conferences:

Tretiak, O., Kovryga, A., Makarov, P., Penkovska, N., Kravchenko, S. Mathematical Modeling of the Thermal State of the Brush-Holders Device in a Three-Dimensional Setting. Integrated Computer Technologies in Mechanical Engineering - 2023. ICTM 2023. LNNS, vol 1008, pp. 75–90, Springer, Cham. Print ISBN 978-3-031-61414-9, Online ISBN 978-3-031-61415-6, https://doi.org/10.1007/978-3-031-61415-6_7.

TEACHING ACTIVITIES:

Courses Taught:

Fundamentals of flight theory and rocket design

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

Distinctions, Awards, Prizes:

1st Degree Diploma, Contest "Young Innovator", nomination "Best Innovative Proposal", "Design and Technological Methods for Increasing the Power of Hydrogenerators in Ukraine", Kharkiv Regional Council of Inventors and Rationalizers, Ukraine, 2025.

Membership in Professional Associations.

SELECTED PUBLICATIONS:



NATIONAL AEROSPACE UNIVERSITY
«KHARKIV AVIATION INSTITUTE»



Key Articles (Scopus, WoS, others):

1. Tretiak, O.; Arefieva, M.; Krytskyi, D.; Kravchenko, S.; Shestak, B.; Smakhtin, S.; Kovryga, A.; Serhiienko, S. Features of Three-Dimensional Calculation of Gas Coolers of Turbogenerators. *Computation* 2025, 13, 192. <https://doi.org/10.3390/computation13080192>, **Q2**.
2. Tretiak, O., Kravchenko, S., Mykhailychenko, O., Nazarenko, V., Smyk, S., Vasyliiev, O., Arefieva, M., Tretiak, I., Serhiienko, S., & Selevko, V. (2025). Devising a method for calculating the structure of efficient cooling systems for thrust bearings and guide bearings in hydrogenerators. *Eastern-European Journal of Enterprise Technologies*, 3(1 (135), 38–50. <https://doi.org/10.15587/1729-4061.2025.329021>, **Q3**.
3. Tretiak, O., Kovryga, A., Kravchenko, S., Shpitalnyi, D., Zhukov, A., Serhiienko, S., Arefieva, M., Penkovska, N., & Madonych, A. (2024). Estimating the influence of the rigidity of support assemblies on the resonance phenomena and the vibration state of a hydraulic unit. *Eastern-European Journal of Enterprise Technologies*, 6(7 (132), 53–64, <https://doi.org/10.15587/1729-4061.2024.316778>, **Q3**.
4. Tretiak, O., Serhiienko, S., Zhukov, A., Gakal, P., Don, Y., Arefieva, M., Tretiak, I., Kravchenko, S., Bohozhavets, O., "Peculiarities of the Design of Housing Parts of Large Direct Current Machines," *SAE Int. J. Mater. Manf.* 17(1):2024. ISSN: 1946-3979, e-ISSN: 1946-3987. <https://doi.org/10.4271/05-17-01-0005>, **Q3**.
5. Tretiak, O., Arefieva, M., Makarov, P., Serhiienko, S., Zhukov, A., Shulga, I., Penkovska, N., Kravchenko, S., Kovryga, A., "Study of Different Types of Ventilation and Cooling Systems of Bulb Hydrogenerators in a Three-Dimensional Setting," *SAE Int. J. Mater. Manf.* 18(3), 2025. <https://doi.org/10.4271/05-18-03-0020>, **Q3**.
6. Tretiak, O., Smyk, S., Kravchenko, S., Smakhtin, S., Brega, D., Zhukov, A., Serhiienko, S., & Don, Y. (2024). Devising a calculation method for modern structures of current-conducting elements in large electric machines in a three-dimensional statement. *Eastern-European Journal of Enterprise Technologies*, 4(1 (130), 87–96. <https://doi.org/10.15587/1729-4061.2024.310049>, **Q3**.
7. Tretiak, O., Kravchenko, S., Shestak, B., Shpitalnyi, D., Arefieva, M., Tretiak, I., Serhiienko, S., & Kovryga, A. (2025). Devising a method for designing multicomponent diffusers of compressors in turbogenerators with hydrogen cooling. *Eastern-European Journal of Enterprise Technologies*, 4(8 (136), 26–38. <https://doi.org/10.15587/1729-4061.2025.337285>, **Q3**.
8. Tretiak, O.; Arefieva, M.; Krytskyi, D.; Kravchenko, S.; Shestak, B.; Smakhtin, S.; Kovryga, A.; Serhiienko, S. Features of Three-Dimensional Calculation of Gas Coolers of Turbogenerators. *Computation* 2025, 13, 192. <https://doi.org/10.3390/computation13080192>, **Q2**.

Books, Chapters in Collective Monographs:

Books:

1. Tretiak O.V., Kravchenko S.S. Analysis of the stress-strain state of high-power turbogenerators during operation in over-design modes, monograph, Kharkiv: National Aerospace University "Kharkiv Aviation Institute"; - Kharkiv: ME "City Printing House", 2024 – 206 p. ISBN 978-617-619-297-8.

Links to Citation Database Profiles:

ORCID: <https://orcid.org/0009-0009-6409-4767>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=58880532300>

Google Scholar: <https://scholar.google.com/citations?user=0MtEQbcAAAAJ&hl>





ADDITIONAL INFORMATION:

Language Proficiency:
English

IT Skills:

IT skills: Windows Server 2003, 2008, Lotsman: PLM system administration, modelling in SolidWorks, Kompas 3D, LabVIEW programming.



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