Curriculum vitae Europass

Personal information	
First name(s) / Surname	**Grigore CICAN**
Telephone	
E-mail	
Nationality	Romanian
Date of birth	
Work experience	
Dates	**August 2024-present**
Occupation or position held	Nominal composition of the specialized committees of the National Commission for the Attestation of University Titles, Diplomas and Certificates (CNATDCU) for the 2024 – 2028 mandate in commission 13 **Aerospace, automotive and transportation engineering** https://www.cnatdcu.ro/paneluri-cnatdcu/
Main activities and responsibilities	Responsible for the evaluation and validation of academic titles and diplomas in Romania.
Type of business or sector	Member of the CNATDCU Commission, Commission 13 **Aerospace, automotive and transportation engineering**
Dates	**February 2024-present**
Occupation or position held	ARACIS Expert https://www.aracis.ro/registrul-national-al-evaluatorilor-cadre-didactice/
Main activities and responsibilities	The external evaluation of the quality of education provided by higher education institutions and all educational organizations operating in Romania.
Name and address of employer	ARACIS stands for the Romanian Agency for Quality Assurance in Higher Education.
Type of business or sector	ARACIS Inspector.
Dates	**October 2023-present**
Occupation or position held	Full Professor in Faculty of Aerospace Engineering
Main activities and responsibilities	Didactic activities, Research activities
Name and address of employer	University POLITENICA of Bucharest, Splaiul Independenţei 313, PC 060032, sector 6, Bucharest, ROMANIA
Type of business or sector	High Education
Dates	**March 2023-present**
Occupation or position held	Senior Scientist
Main activities and responsibilities	Research Activity
Name and address of employer	National Research and Development Institute for Gas Turbines COMOTI 220 D Iuliu Maniu Bd., sector 6, cod 061126, OP 76, CP174 Bucharest, Romania.
Type of business or sector	Research and Development of Propulsion Systems for Unmanned Aircraft. Multi-role Drones Department
Dates	**June 2022-present**

Occupation or position held	Doctoral School of the Faculty of Aerospace Engineering, University Politehnica of Bucharest, IOSUD
Main activities and responsibilities	Doctoral supervision
Name and address of employer	University POLITENICA of Bucharest, Splaiul Independenţei 313, PC 060032, sector 6, Bucharest, ROMANIA
Type of business or sector	High Education
Dates	**October 2020-2023**
Occupation or position held	Associate Professor in Faculty of Aerospace Engineering
Main activities and responsibilities	Didactic activities, Research activities
Name and address of employer	University POLITENICA of Bucharest, Splaiul Independenţei 313, PC 060032, sector 6, Bucharest, ROMANIA
Type of business or sector	High Education
Dates	**October 2014-2020**
Occupation or position held	Lecturer in Faculty of Aerospace Engineering
Main activities and responsibilities	Didactic activities, Research activities
Name and address of employer	University POLITENICA of Bucharest, Splaiul Independenţei 313, PC 060032, sector 6, Bucharest, ROMANIA
Type of business or sector	High Education
Dates	**December 2014-2017**
Occupation or position held	Senior Scientist
Main activities and responsibilities	Research Activity
Name and address of employer	National Research and Development Institute for Gas Turbines COMOTI 220 D Iuliu Maniu Bd., sector 6, cod 061126, OP 76, CP174 Bucharest, Romania.
Type of business or sector	Acoustic research
Education and training	
Dates	**2022**
Title of qualification awarded	Habited in the Field of Doctoral Studies in Aerospace Engineering, Habilitation Certificate (Order of the Ministry of Education and Research 4001/08.06.2022)
Principal subjects/occupational skills covered	Title of the habilitation thesis: "Contributions in the field of environmental aviation" Doctoral supervision in the Field of Doctoral Studies in Aerospace Engineering
Name and type of organization providing education and training	University POLITENICA of Bucharest Faculty of Aerospace Engineering
Level in national or international classification	Category 1 - Advanced Research and Education University
Dates	**October 2010-february 2014**
Title of qualification awarded	Doctoral Degree
Principal subjects/occupational skills covered	Thesis “Contributions regarding noise attenuation of the jets gas nozzles using complex chevrons systems” scientific advisor: Professor V. Stanciu

Name and type of organization providing education and training	University POLITENICA of Bucharest Faculty of Aerospace Engineering
Level in national or international classification	Doctoral Studies
Dates	**October 2009- June 2011**
Title of qualification awarded	Master Degree
Principal subjects/occupational skills covered	Master in Aerospace Propulsion and Environmental Protection
Name and type of organization providing education and training	University POLITENICA of Bucharest Faculty of Aerospace Engineering
Level in national or international classification	Master Studies
Dates	**October 2006- June 2010**
Title of qualification awarded	Bachelor of Science
Principal subjects/occupational skills covered	Plasma Physics, Spectroscopy and Physics of Lasers, Nuclear Physics, Physics of Solid, Electrical and Magnetism, Physics Quantum, Mechanics **Diploma "Plasma Propulsion"**
Name and type of organization providing education and training	University of Bucharest Faculty of Physics
Level in national or international classification	Higher Education
Dates	**October 2004- June 2009**
Title of qualification awarded	Bachelor of Science
Principal subjects/occupational skills covered	Mathematics, Gaz dynamics, Calculation and construction of turbomachines, piston engines, rocket propulsion, Airplane mechanics, **Diploma "Liquid oxygen and liquid hydrogen engine rocket in a single stage for suborbital flights"**
Name and type of organization providing education and training	University POLITENICA of Bucharest Faculty of Aerospace Engineering
Level in national or international classification	Higher Education

Personal skills and competences

Mother tongue	Romanian										
Other language	English										
Self-assessment	**Understanding**				**Speaking**				**Writing**		
European level (*)	Listening		Reading		Spoken interaction		Spoken production		written expression		
English	B2	Advanced	B2	Advanced	B2	Advanced	B2	Advanced	B2	Advanced	

Social skills and competences	Good team working

Organizational skills and competences	• Experience (including managerial experience) in management of national projects. • Diploma for the Innovation Manager Course organized by the ATHENA Center
Technical and Scientific Competences	Skills and competences in: analysis of propulsion systems, CAD, CFX-Ansys, pollution reduction, biofuels and green propellants, ignition and testing turbojet engines, propulsion systems, acoustics and signal processing, etc, also skills in management of human and material resources; in project management, in disseminating research results.
Computer skills and competences	Strong Knowledge of software's: • RPA - Racket propulsion analysis • GasTurb • ANSYS- CFX, • Solid Edge, CATIA • Fortran, • Math CAD, • Microsoft Office.
Didactical competences	Titular of the courses: • Space propulsion systems • Propulsion system technologies • Elements of Gas Turbine Propulsion • Introduction to aerospace engineering • Transient Processes in Turbine Engines • Heat transfer in turboengines • Environmental Aviation • Acoustics and Noise Pollution in Aviation • Team Leader of "Space Piranhas" Students Team- University POLITENICA of Bucharest Faculty of Aerospace Engineering , at The Aerospace Challenge 2016-2017, where they won the "The Airbus Safran Launchers" • Tutor for the students who visited the Faculty of Aerospace Engineering as part of the project „Hai la facultate! Program de vară pentru elevi de liceu – StudUPB" in 2021, 2022 and 2023 • Tutor for first-year students at the Faculty of Aerospace Engineering. • Member of the Faculty of Aerospace Engineering Council. • Member of the Doctoral School of Aerospace Engineering Council. • Merit rating for the period 2022-2027
Awards Received	**Gold Medal** at the International Innovation and Invention Show EURO POLITEHNICUS 2024, held from November 22-23 th, 2024, in Bucharest, awarded for the "Integrated test bench for micro-turbogenerators under conditions simulating their application on UAV eith remote control via WI-FI." Authors: Tiberius-Florian Frigioescu, Gabriel-Petre Badea, Madalin Dombrovschi, **Grigore Cican**, Maria Caldarar **Gold Medal** at the International Innovation and Invention Show EURO POLITEHNICUS 2024, held from November 22-23 th, 2024, in Bucharest, awarded for the "Fixed-Wing UAV with Vertical Takeoff/Landing System, with Tri-Rotor Propulsion System, and Method of Intercepting the Specific Sound Emitted by Thermal Engine-Powered Chainsaw." Authors: Tiberius-Florian Frigioescu, Gabriel-Petre Badea, Victoras-Florentin Anghel, **Grigore Cican**, Mihaela-Raluca Condruz, Marius-Adrian Dima **Gold Medal** at the XVI th edition of the International Exhibition EUROINVENT, held from June 8 th, 2024, in Iasi, awarded for the "Fixed-Wing UAV with Vertical Takeoff/Landing System, with Tri-Rotor Propulsion System, and Method of Intercepting the Specific Sound Emitted by Thermal Engine-Powered Chainsaw." Authors: Tiberius-Florian Frigioescu, Gabriel-Petre Badea, Victoras-Florentin Anghel, **Grigore Cican**, Mihaela-Raluca Condruz, Marius-Adrian Dima

Gold Medal at the 4th edition of the International Exhibition INVENCOR, held from September 14th to 16th, 2023, in Deva, awarded for the "Fixed-Wing UAV with Vertical Takeoff/Landing System, with Tri-Rotor Propulsion System, and Method of Intercepting the Specific Sound Emitted by Thermal Engine-Powered Chainsaw." Authors: Tiberius-Florian Frigioescu, Gabriel-Petre Badea, Victoras-Florentin Anghel, **Grigore Cican**, Mihaela-Raluca Condruz, Marius-Adrian Dima

Gold Medal at the XVIII th edition of the International Exhibition INFOINVENT, held from November 22th to 24th, 2023, in Chisinau, awarded for the "Fixed-Wing UAV with Vertical Takeoff/Landing System, with Tri-Rotor Propulsion System, and Method of Intercepting the Specific Sound Emitted by Thermal Engine-Powered Chainsaw." Authors: Tiberius-Florian Frigioescu, Gabriel-Petre Badea, Victoras-Florentin Anghel, **Grigore Cican**, Mihaela-Raluca Condruz, Marius-Adrian Dima

UEFISCDI/PN III PRECISI Award for "Recognition of Research Results" in 2020 for the work:
Cican, G.; Deaconu, M.; Mirea, R.; Ceatra, L.; Cretu, M.; Dobre, T. Investigating the Use of Recycled Pork Fat-Based Biodiesel in Aviation Turbo Engines. Processes 2020, 8, 1196. https://doi.org/10.3390/pr8091196
Cod project: PN-III-P1-1.1-PRECISI-2020-52146

UEFISCDI/PN III PRECISI Award for "Recognition of Research Results" in 2020 for the work:
Sandu, C.; Silivestru, V.; **Cican, G**.; Șerbescu, H.; Tipa, T.; Totu, A.; Radu, A. On a New Type of Combined Solar–Thermal/Cold Gas Propulsion System Used for LEO Satellite's Attitude Control. Appl. Sci. 2020, 10, 7197. https://doi.org/10.3390/app10207197
Cod project: PN-III-P1-1.1-PRECISI-2020-52512

UEFISCDI/PN III PRECISI Award for "Recognition of Research Results" in 2021 for the work:
Cican, G.; Deaconu, M.; Crunteanu, D.-E. Impact of Using Chevrons Nozzle on the Acoustics and Performances of a Micro Turbojet Engine. Appl. Sci. 2021, 11, 5158. https://doi.org/10.3390/app11115158
Cod project: PN-III-P1-1.1-PRECISI-2021-64306

UEFISCDI/PN III PRECISI Award for "Recognition of Research Results" in 2021 for the work:
Cican, G.; Deaconu, M.; Mirea, R.; Ceatra, L.C.; Cretu, M. An Experimental Investigation to Use the Biodiesel Resulting from Recycled Sunflower Oil, and Sunflower Oil with Palm Oil as Fuels for Aviation Turbo-Engines. Int. J. Environ. Res. Public Health 2021, 18, 5189. https://doi.org/10.3390/ijerph18105189
Cod project: PN-III-P1-1.1-PRECISI-2021-63477

UEFISCDI/PN III PRECISI Award for "Recognition of Research Results" in 2021 for the work:
Deaconu, M.; Cican, G.; Toma, A.-C.; Drăgășanu, L.I. Helicopter Inside Cabin Acoustic Evaluation: A Case Study—IAR PUMA 330. Int. J. Environ. Res. Public Health 2021, 18, 9716. https://doi.org/10.3390/ijerph18189716
Cod project:PN-III-P1-1.1-PRECISI-2021-64995

Reviewer of ISI and BDI journals	• Journal of Cleaner Production, • International Journal of Numerical Methods for Heat & Fluid Flow, • Sustainability, • Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, • Aircraft Engineering and Aerospace Technology, • Journal of the Brazilian Society of Mechanical Sciences and Engineering • Energies, • Aerospace, • Processes, • Electronics, • Applied Sciences, • World Electric Vehicle Journal, • Acoustics, • Sensors, • Mathematics, • Fuels, • INCAS BULLETIN
Member of Editorial Boards	Scientific Journal TURBO, ISSN (online): 2559-608X, http://www.comoti.ro/docs/jurnal/Jurnal%20TURBO%20Vol%20VIII%20No%201%202021.pdf Scientific Board Member in the Technium Romanian Journal of Applied Sciences and Technology https://techniumscience.com/index.php/technium/about/editorialTeam
Guest Editor	Guest Editor of Special Issue, "Recent Advances in Biofuels Production and Usage: Challenges and Solutions" for ENERGIES Journal, https://www.mdpi.com/journal/energies/special_issues/70SWMND0LN
Publications	7 books 2 courses 1 problem collections 1 laboratory guide **Published 50 articles in indexed and ISI-rated journals.** Published 5 ISI proceedings articles. Published 15 articles in BDI databases. A patent application
Web of Science Researcher ID Scopus Author ID Google Academic Profile UEFICD ID	https://www.webofscience.com/wos/author/record/2019242 https://www.scopus.com/authid/detail.uri?authorId=55919134800 https://scholar.google.ro/citations?hl=ro&user=b5lsszQAAAAJ U-1700-032K-0274 https://www.brainmap.ro/grigore-cican
Driving License	Type B and C
Annex	Main Research Contributions (books, published papers, conferences proceedings, projects) in work list

ANNEX

Published papers

BOOKS

1. Valentin Silivestru, **Grigore Cican,** Experimental analysis of jet engine operating regimes, **Editura AGIR**, Bucuresti 2025, ISBN 978-973-720-934-4, **111 pages**
2. Alina Bogoi, **Grigore Cican**, Daniel Eugeniu Crunteanu, *Fundamentals of acoustic*, **Editura Monitorul Ofician**, Bucuresti, 2024, ISBN 978-973-0-39795-6, **343 pages**
3. Alina Bogoi, **Grigore Cican**, Laurentiu Cristea, *Bazele acusticii, concepte teoretice si aplicatii*, **Editura Monitorul Ofician**, Bucuresti, 2024, ISBN 978-973-0-39801-4, **279 pages**
4. Marius Deaconu, Laurentiu Cristea, **Grigore Cican**, *Acustica in Inginerie,* **Editura Printech**, Bucuresti, 2021, ISBN 978-606-23-1272-5**, 229 pages**
5. **Grigore Cican,** *Introducere in inginerie aerospatiala-curs,* **Editura Printech**, Bucuresti, 2020, ISBN 978-606-23-1158-2, **193 pages**
6. **Grigore Cican,** *Sisteme de propulsie spatiala-Propulsia electrica*, **Editura Printech**, Bucuresti, 2018, **293 pages**
7. **Grigore Cican,** Virgil Stanciu, *Tehnologii de fabricatie a sistemelor de propulsie pentru aviatie- curs universitar*, **Editura Printech,** Bucuresti, 2017, ISBN 978-606-23-0767-7, **270 pages**
8. **Grigore Cican,** Marius Brebenel**,** *Procesee tranzitorii in turbomotoare-Indrumar de laborator*, **Editura Printech**, Bucuresti, 2017, ISBN 978-606-23-0766-0, **124 pages**
9. **Grigore Cican,** Valentin Silivestru, Virgil Stanciu, Razvan Catana, *Pornirea turbomotoarelor, Procese si experimente,* **Editura Printech,** Bucuresti, 2016, ISBN 978-606-23-0683-0, **172 pages**
10. **Grigore Cican,** Virgil Stanciu, *Sisteme de propulsie si corectie spatiala -aplicatii,* **Editura Printech**, Bucuresti, 2015, ISBN 978-606-23-0469-0, **150 pages**
11. **Grigore Cican,** Virgil Stanciu, *Simularea performantelor turbomotoarelor de aviatie in fortran,* **Editura Printech**, Bucuresti, 2015, ISBN 978-606-23-0310-5, **419 pages**

SCIENTIFIC ARTICLES

Articles published in ISI journals

1. Osman, S.; Ceatra, L.; **Cican, G**.; Mirea, R. Physicochemical Properties of Jet-A/n-Heptane/Alcohol Blends for Turboengine Applications. **Inventions** 2025, 10, 3. https://doi.org/10.3390/inventions10010003 , **I.F. 2.1-Q2**
2. Silivestru, V.; **Cican, G**.; Mirea, R.; Osman, S.; Ene, R. Experimental Evaluation of the Impact on Turbo Engine's Performance and Gaseous Emissions While Using n-Heptane Octanol/Jet-A Blends. *Sustainability* **2025**, *17*, 3924. https://doi.org/10.3390/su17093924,
3. **Cican, G**.; Silivestru, V.; Mirea, R.; Osman, S.; Popescu, F.; Sapunaru, O.V.; Ene, R. Performance and Emissions Assessment of a Micro-Turbojet Engine Fueled with Jet A and Blends of Propanol, Butanol, Pentanol, Hexanol, Heptanol, and Octanol. *Fire* **2025**, *8*, 150. https://doi.org/10.3390/fire8040150
4. Suatean, B.; **Cican, G**.; Guilain, S.; De-Paz-Alcolado, G. Optimization of Hydrogen Combustion in Diesel Engines: A CFD-Based Approach for Efficient Hydrogen Mixing and Emission Reduction. *Fuels* **2025**, *6*, 27. https://doi.org/10.3390/fuels6020027
5. Bogoi, A.; **Cican, G**.; Gall, M.; Totu, A.; Crunțeanu, D.E.; Leventiu, C. Comparative Study of Noise Control in Micro Turbojet Engines with Chevron and Ejector Nozzles Through Statistical, Acoustic and Imaging Insight. **Appl. Sci**. 2025, 15, 394. https://doi.org/10.3390/app15010394 , **I.F. 2.5-Q1**
6. **Cican G,** Mirea R. Performance and environmental impact of ethanol-kerosene blends as sustainable aviation fuels in micro turbo-engines**. International Journal of Engine Research**. 2024;25(12):2204-2214. doi:10.1177/14680874241264750 , **I.F. 2.3-Q2**

7. Tărăbîc, C.M., **Cican, G.**, Dediu, G. i Catană, R.M. (2024). Updating a Didactical Piston Engine Test Bench, from Analogue Instrumentation to Digital. **Tehnički vjesnik**, 31 (4), 1087-1094. https://doi.org/10.17559/TV-20230315000440 , **I.F. 1-Q3**
8. Totu, A.-G.; Deaconu, M.; Cristea, L.; Bogoi, A.; Crunțeanu, D.-E.; **Cican, G.** Experimental Analysis of Acoustic Spectra for Leading/Trailing-Edge Serrated Blades in Cascade Configuration. **Processes** 2024, 12, 2613. https://doi.org/10.3390/pr12112613, **I.F. 2.8-Q2**
9. Totu, A.-G.; Olariu, C.-T.; Trifu, A.-T.; Totu, A.-C.; **Cican, G**. Development and Assessment of a Miniaturized Test Rig for Evaluating Noise Reduction in Serrated Blades Under Turbulent Flow Conditions. **Acoustics** 2024, 6, 978-996. https://doi.org/10.3390/acoustics6040054 , **I.F. 1.3-Q3**
10. Tărăbîc, C.M.; **Cican, G**.; Olariu, C.; Dediu, G.; Catană, R.M. Test Stand for Microjet Engine Prototypes. **Machines** 2024, 12, 688. https://doi.org/10.3390/machines12100688 , **I.F. 2.1-Q2**
11. **Cican, G**.; Mirea, R. An Experimental Insight into the Use of N-Butanol as a Sustainable Aviation Fuel. **Fire** 2024, 7, 313. https://doi.org/10.3390/fire7090313 , **I.F. 3-Q1**
12. Catana, R.M.; **Cican, G**.; Badea, G.-P. Thermodynamic Analysis and Performance Evaluation of Microjet Engines in Gas Turbine Education. **Appl. Sci.** 2024, 14, 6754. https://doi.org/10.3390/app14156754 , **I.F. 2.5-Q1**
13. **Cican, G**.; Mirea, R.; Căldărar, M. Comparative Analysis of Aeroshell 500 Oil Effects on Jet A and Diesel-Powered Aviation Microturbines. **Fuels** 2024, 5, 347-363. https://doi.org/10.3390/fuels5030020, **I.F. 2.7-Q3**
14. Dombrovschi, M.; Deaconu, M.; Cristea, L.; Frigioescu, T.F.; **Cican, G**.; Badea, G.-P.; Totu, A.-G. Acoustic Analysis of a Hybrid Propulsion System for Drone Applications. **Acoustics** 2024, 6, 698-712. https://doi.org/10.3390/acoustics6030038, **I.F. 1.3-Q3**
15. **Cican, G**.; Mirea, R.; Rimbu, G. Experimental Evaluation of Methanol/Jet-A Blends as Sustainable Aviation Fuels for Turbo-Engines: Performance and Environmental Impact Analysis. **Fire** 2024, 7, 155., **I.F. 3.2-Q1**, https://doi.org/10.3390/fire7050155
16. Badea, G.P.; Frigioescu, T.F.; Dombrovschi, M.; **Cican, G**.; Dima, M.; Anghel, V.; Crunteanu, D.E. Innovative Hybrid UAV Design, Development, and Manufacture for Forest Preservation and Acoustic Surveillance. **Inventions** 2024, 9, 39. , **I.F. 3.4-Q1**, https://doi.org/10.3390/inventions9020039
17. Totu, A.-G.; **Cican, G**.; Crunțeanu, D.-E. Serrations as a Passive Solution for Turbomachinery Noise Reduction. **Aerospace** 2024, 11, 292. **I.F. 2.6-Q1,** https://doi.org/10.3390/aerospace11040292
18. **Cican, G**. Experimental Transient Process Analysis of Micro-Turbojet Aviation Engines: Comparing the Effects of Diesel and Kerosene Fuels at Different Ambient Temperatures. **Energies** 2024, 17, 1366. **I.F. 3.2-Q3,** https://doi.org/10.3390/en17061366
19. Corcau, J.-I.; Dinca, L.; **Cican, G**.; Ionescu, A.; Negru, M.; Bogateanu, R.; Cucu, A.-A. Studies Concerning Electrical Repowering of a Training Airplane Using Hydrogen Fuel Cells. **Aerospace** 2024, 11, 218. **I.F. 2.6-Q1,** https://doi.org/10.3390/aerospace11030218
20. **Cican, G**.; Paraschiv, A.; Buturache, A.N.; Hapenciuc, A.I.; Mitrache, A.; Frigioescu, T.-F. Experimental Research into an Innovative Green Propellant Based on Paraffin–Stearic Acid and Coal for Hybrid Rocket Engines. **Inventions** 2024, 9, 26. **I.F. 3.4-Q1,** https://doi.org/10.3390/inventions9020026
21. Mirea, R.; **Cican, G.** Lab Scale Investigation of Gaseous Emissions, Performance and Stability of an Aviation Turbo-Engine While Running on Biodiesel Based Sustainable Aviation Fuel. **Inventions** 2024, 9, 16. **I.F. 3.4-Q1,** https://doi.org/10.3390/inventions9010016
22. M. Deaconu, **G. Cican,** L. Dragasanu, and L. Cristea, "A Resonator Noise Reduction Solution for a Centrifugal Gas Compressor", **Eng. Technol. Appl. Sci. Res**., vol. 14, no. 1, pp. 12561–12566, Feb. 2024, **I.F. 1.5-Q2**.
23. C. D. Coman, D. E. Crunteanu, **G. Cican,** and M. Stoia-Djeska, "Geometry Effects on Joint Strength and Failure Modes of Hybrid Aluminum-Composite Countersunk bolted Joints", **Eng. Technol. Appl. Sci. Res**., vol. 14, no. 1, pp. 12759–12768, Feb. 2024, I**.F. 1.5-Q2**.
24. **Cican Grigore**, Mirea Radu, The impact of Covid-19 on air quality in Bucharest, Romania, 2024, **Journal of Environmental Engineering and Science**, P 57-73, V 19, N 2,R 10.1680/jenes.22.00086, **I.F. 0.7-Q4**, https://www.icevirtuallibrary.com/doi/abs/10.1680/jenes.22.00086
25. R. Mirea, **G. Cican**, and M. Cretu, "Evaluation of Aircraft Emissions at Bucharest Henri Coanda Airport", **Eng. Technol. Appl. Sci. Res**., vol. 13, no. 5, pp. 11829–11836, Oct. 2023, **I.F. 1.5-Q2**.
26. **G. Cican**, I. F. Popa, A. N. Buturache, and A. I. Hapenciuc, "Design, Manufacturing, and Testing Process of a Lab Scale Test Bench Hybrid Rocket Engine", **Eng. Technol. Appl. Sci. Res.**, vol. 13, no. 6, pp. 12039–12046, Dec. 2023, **I.F. 1.5-Q2**.
27. Frigioescu, T.-F.; Badea, G.P.; Dombrovschi, M.; Condruz, M.R.; Crunțeanu, D.-E.; **Cican, G**. The Design and Development of a UAV's Micro-Turbogenerator System and the Associated Control Testing Bench. **Electronics** 2023, 12, 4904. **I.F. 2.9-Q2**. https://doi.org/10.3390/electronics12244904

28. **Cican, G**.; Gall, M.; Bogoi, A.; Deaconu, M.; Crunțeanu, D.E. Experimental Investigation of a Micro Turbojet Engine Chevrons Nozzle by Means of the Schlieren Technique. Inventions 2023, 8, 145. **I.F. 3.4-Q1**. https://doi.org/10.3390/inventions8060145
29. Bogoi, A.; Dan, C.-I.; Strătilă, S.; **Cican, G**.; Crunteanu, D.-E. Assessment of Stochastic Numerical Schemes for Stochastic Differential Equations with "White Noise" Using Itô's Integral. Symmetry 2023, 15, 2038. **I.F. 2.7-Q2**. https://doi.org/10.3390/sym15112038
30. Toma, Adina Cristina, **Grigore Cican**, and Daniel-Eugeniu Crunteanu. 2023. "Enhancing Air Traffic Management and Reducing Noise Impact: A Novel Approach Integrating Băneasa Airport with Otopeni RO Airport" **Applied Sciences** 13, no. 16: 9139. **I.F. 2.7-Q2**. https://doi.org/10.3390/app13169139, https://www.mdpi.com/2076-3417/13/16/9139
31. Condruz, Mihaela-Raluca, Alexandru Paraschiv, Teodor-Adrian Badea, Daniel Useriu, Tiberius-Florian Frigioescu, Gabriel Badea, and **Grigore Cican**. 2023. "A Study on Mechanical Properties of Low-Cost Thermoplastic-Based Materials for Material Extrusion Additive Manufacturing" **Polymers** 15, no. 14: 2981. **I.F. 5-Q1**. https://doi.org/10.3390/polym15142981, https://www.mdpi.com/2073-4360/15/14/2981
32. **Cican, G**.; Buturache, A.-N.; Mirea, R. Applying Machine Learning Techniques in Air Quality Prediction—A Bucharest City Case Study. **Sustainability** 2023, 15, 8445. **I.F. 3.9-Q2**. https://doi.org/10.3390/su15118445, https://www.mdpi.com/2071-1050/15/11/8445
33. Frigioescu, T., Badea, T., Condruz, M.R., **Cican, G**. i Mîndru, I. (2023). Design and Development of a Remote-Control Test Bench for Remote Piloted Aircraft's Brushless Motors. **Tehnički vjesnik**, 30 (4), 1047-1054. **I.F. 0.8-Q4**. https://doi.org/10.17559/TV-20221004152801, https://hrcak.srce.hr/clanak/440418
34. **Cican,** G.; Frigioescu F.T; Crunteanu, D.E.; Cristea L., Micro turbojet engine nozzle ejector impact on the acoustic emission, trust force and fuel consumption analysis, Aerospace, **I.F. 2.6-Q1**., DOI:10.3390/aerospace10020162 , **WOS:000938646800001**
35. **Cican, G.;** Crunteanu, D.E.; Mirea, R.; Ceatra, L.C.; Leventiu, C. Biodiesel from Recycled Sunflower and Palm Oil—A Sustainable Fuel for Microturbo-Engines Used in Airside Applications. Sustainability, 2023, 15, 2079. **I.F. 3.9-Q2**. https://doi.org/10.3390/su15032079 **WOS: 000931012300001** https://www.mdpi.com/2071-1050/15/3/2079
36. Dadkhah Tehrani, Reza, Hadi Givi, Daniel-Eugeniu Crunteanu, and **Grigore Cican**. 2021. "*Adaptive Predictive Functional Control of X-Y Pedestal for LEO Satellite Tracking Using Laguerre Functions*" Applied Sciences, 11, no. 21: 9794. **I.F. 2.8-Q2 WOS:000718334600001,** https://www.mdpi.com/2076-3417/11/21/9794
37. Deaconu Marius, **Grigore Cican**, Adina Toma, Luminita Dragusanu, Helicopter *Inside Cabin Acoustic Evaluation: A Case study - IAR PUMA 330*, International journal of environmental research and public health, Volume: 18 Issue: 18 Article Number: 9716, 2021**, I.F. 4.6-Q1**. **WOS:00069965950000,** https://www.mdpi.com/1660-4601/18/18/97161
38. **Cican, Grigore**; Deaconu, Marius; Crunteanu, Daniel-Eugeniu, *Impact of Using Chevrons Nozzle on the Acoustics and Performances of a Micro Turbojet Engine,* Applied Sciences, Volume: 11 Issue: 11 Article Number: 5158 Published: JUN 2021, **I.F. 2.8-Q2**. **WOS:000659633200001,** https://www.mdpi.com/2076-3417/11/11/5158
39. **Cican, Grigore**; Deaconu, Marius; Mirea, Radu, Laurentiu Ceatra, Mihaiella Cretu, *An Experimental Investigation to Use the Biodiesel Resulting from Recycled Sunflower Oil, and Sunflower Oil with Palm Oil as Fuels for Aviation Turbo-Engines,* International journal of environmental research and public health, Q1, Volume: 18 Issue: 10 Article Number: 5189 Published: MAY 2021, **I.F. 4.6-Q1 WOS:000654874200001,** https://www.mdpi.com/1660-4601/18/10/5189
40. Constantin Sandu, Valentin Silivestru, **Grigore CICAN**, Horatiu Serbescu, Traian Tipa, Andrei Totu, Andrei Radu, *On a New Type of Combined Solar-Thermal/Cold Gas Propulsion System Used for LEO Satellite's Attitude Control,* Applied Sciences, Q2, Volume: 10, Issue: 20, Article Number: 7197, Published: OCT 2020, **I.F. 2.8-Q2**. **WOS:000586306900001,** https://www.mdpi.com/2076-3417/10/20/7197
41. Marius Deaconu**, Grigore CICAN,** Laurentiu Cristea, *Noise Impact Mitigation of Shopping Centres Located near Densely Populated Areas for a Better Quality of Life,* Applied Sciences, Volume: 10 Issue: 18, Article Number: 6484, Published: SEP 2020, **I.F. 2.8-Q2**. **WOS:000580518200001,** https://www.mdpi.com/2076-3417/10/18/6484
42. **Grigore CICAN**, Marius Deaconu, Radu Mirea, Laurentiu Ceatra, Mihaiella Cretu, Tănase Dobre, *Investigating the Use of Recycled Pork Fat-Based Biodiesel in Aviation Turbo Engines,* PROCESSES, Volume: 8, Issue: 9, Article Number: 1196, Published: SEP 2020, **I.F. 3.3-Q2**. **WOS:000580542700001,** https://www.mdpi.com/2227-9717/8/9/1196

43. **Grigore CICAN,** Valentin Plesu, Marius Deaconu, Adina Toma, Mihaiella Cretu, *Performances and emissions evaluation of a micro turbojet engine running on biodiesel blends,* JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, Volume: 141 Issue: 7, Article Number: 072003, Published: JUL 2019**, I.F. 3 -Q3**. **WOS:000470845800016,** https://asmedigitalcollection.asme.org/energyresources/article-abstract/141/7/072003/725865/Performances-and-Emissions-Evaluation-of-a
44. **Grigore CICAN**, Adina TOMA, Cristian PUŞCAŞU, Razvan CATANA, *Jet CAT P80 Thermal Analyses and Performance Assessment Using Different Fuels Types*, JOURNAL OF THERMAL SCIENCE, Volume: 27 Issue: 4 Pages: 389-393, Published: AUG 2018**, I.F. 1-Q3**. **WOS: 000438132200010,** https://link.springer.com/content/pdf/10.1007/s11630-018-1026-z.pdf
45. Marius Deaconu, Grigore Cican, *Turbojet Test Cell and Noise Impact Assessment in the Vicinity of Romanian Research and Development Institute for Gas Turbines COMOTI,* ACOUSTICS AUSTRALIA, Q4, Volume: 46 Issue: 2 Pages: 249-257, Published: AUG 2018, **I.F. 0.8-Q4**. **WOS:00044252800007.** https://link.springer.com/content/pdf/10.1007/s40857-018-0134-y.pdf
46. Ionuț-Florian POPA, Anna-Maria Theodora ANDREESCU, Dan IFRIM, Radu MIHALACHE, Dragoș MIHAI, **Grigore CICAN**, *Finite Element Modeling and Performance Optimization of an Ion Thruster depending on the nature of the propellant*, CEAS SPACE JOURNAL, Volume: 11 Issue: 2 Pages: 115-122, Published: JUN 2019, **WOS:000465226800001,** https://link.springer.com/content/pdf/10.1007/s12567-018-0218-4.pdf
47. Razvan Catana, **Grigore CICAN,** Gabriel Dediu, *Gas Turbine Engine Starting Applicated on TV2-117 Turboshaft*, ENGINEERING TECHNOLOGY & APPLIED SCIENCE RESEARCH, Volume: 7 Issue: 5 Pages: 2005-2009, Published: OCT 2017, **WOS: 000416761100019,** https://etasr.com/index.php/ETASR/article/view/1315

Procedings ISI

1. **Grigore Cican**, Marius Deaconu, Adina Toma, Adrian Gruzea, *Micro Turbo Engine JetCAT P80 Acoustic Evaluation,* „Acoustics and vibration of mechanical structures" **May 25-26, 2017** - Timisoara, Romania, **WOS: 000437313600016,** https://link.springer.com/chapter/10.1007/978-3-319-69823-6_16
2. **Grigore Cican**, Marius Deaconu, Florin Frunzulica, *JetCat P80 Noise Experimental and Numerical Evaluation*, AIP Conference Proceedings of ICNAMM 2017, 15th international conference of numerical analysis and applied mathematics, **25-30 septembrie 2017**- Tesalonic, Grecia, **WOS:000445105400292,** https://aip.scitation.org/doi/10.1063/1.5043971
3. Edmond Maican, Erol Murad, **Grigore Cican**, Iulian-Claudiu Duţu, A*nalysis of a top lit updraft gasification system designed for greenhouses and hothouses*, 16th International Multidisciplinary Scientific GeoConference SGEM **2016**, Croatia,**WOS: 3 91348600014,** https://www.webofscience.com/wos/woscc/full-record/WOS:000391348600014
4. **Cican Grigore**, Crunteanu Daniel-Eugeniu, *Aerodynamic noise control study of nozzles with triangular chevrons*, International Conference on Cyber Systems in the fields of Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics, Bio mechatronics, Neurorehabilitation and Human motricitiess, OPTIROB-2014 the 10th edition, 25–27 Octombrie 2013, Bucuresti, Romania, Trans Tech Publications, Switzerland, Applied Mechanics and Materials Vol. 436 (**2013**) pp 25-31 **WOS: 000262860100107.** https://www.scientific.net/AMM.436.25
5. R. Catana, **G. Cican**, C. Predoiu, V. Silivestru, R. Rugescu, *Numerical proof of calorimetter chemical freezing,* 19th DAAAM International Symposium on Intelligent Manufacturing and Automation (DAAAM 2008) Trnava, Slovakia 22-25 October 2008 Volume 1 of 2 Editor: B. Katalinic Focus on Next Generation of Intelligent Systems and Solutions pag. 0215-0217, **WOS: 000332261000004,** https://www.webofscience.com/wos/woscc/full-record/WOS:000262860100107

BDI Journal papers:

1. Cornel Mihai TĂRĂBÎC, Cristian OLARIU, **Grigore CICAN,** Gabriel DEDIU, Rareș Andrei SECĂREANU, Cosmin Petru SUCIU, Alexandru HANK, INSTRUMENTATION AND DATA ACQUISITION SYSTEM FOR MICROJET ENGINES – PROTOTYPES, TURBO, vol. X (2023), no. 1 http://www.comoti.ro/docs/jurnal/TURBO_vol_X_no_1_2023.pdf

2. **Grigore Cican**, Marius Deaconu, Radu Mirea, Andrei Tiberiu Cucuruz**,** *Influence of bioethanol blends on performances of a micro turbojet engine,* REVISTA DE CHIMIE, Volume 71, Issue 5, Pages: 229-238, Publication date: 2020/5/29, https://revistadechimie.ro/Articles.asp?ID=8131 (Scopus)
3. Marius Deaconu, **Grigore CICAN,** Laurentiu Cristea, Luminita Dragasanu, *Analysis of high porosity map using different methods,* U.P.B. Sci. Bull., Series D, Vol. 80, Iss. 3, **2018** ISSN 1454-2358 https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full0a7_143570.pdf (Scopus)
4. Toma A., Deaconu M., Dragasanu L., **Cican G**., *Overview of the First Romanian Social Surveys on Aircraft Noise Annoyance,* Scientific Journal TURBO, vol. V (**2018**), no. 1 pp.28-33, http://www.comoti.ro/docs/jurnal/TURBO%20Vol%20V_No%201_2018.pdf (Copernicus)
5. **Grigore Cican**, Alexandru Mitrache, *Rocket solid propellant alternative based on ammonium dinitramide,* INCAS BULLETIN, Volume 9, Issue 1/ **2017**, pp. 17 – 24, https://bulletin.incas.ro/files/cican__mitrache__vol_9_iss_1.pdf (Scopus)
6. **Grigore Cican,** Ionut Popa, *Optimizing ideal ion propulsion systems depending on the nature of the propellant,* INCAS BULLETIN, Volume 8, Issue 4/ **2016**, pp. 93 – 103, https://bulletin.incas.ro/files/cican__popa_vol_8_iss_4_final.pdf (Scopus)
7. **Grigore Cican***, Optimizing a space mission using ion propulsion*, Review of the Aire Force Academy, Vol XIII No 3(30)/ **2015**, pp 89-94, (online), https://www.afahc.ro/ro/revista/2015_3/CICAN_2015_3.pdf (EBSCO)
8. **Grigore CICAN**, Virgil STANCIU, Daniel-Eugeniu CRUNTEANU, *Acoustic control study of turbofan nozzles with triangular chevrons,* INCAS BULLETIN, Volume 6, Issue 1/**2014**, pp 13-20, https://bulletin.incas.ro/files/cican__stanciu__crunteanu__vol_6_iss_1.pdf (Scopus)
9. **Grigore CICAN**, Virgil STANCIU, Daniel CRUNTEANU, *Analytical and numerical study of the nozzle jet,* U.P.B. Sci. Bull., Series D, Vol. 76, Iss. 1, **2014,** pag. 37-44, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full1e2_323460.pdf (Scopus)
10. **Grigore CICAN**, Daniel-Eugeniu CRUNTEANU*, Acoustic investigation on nozzles with different types of six lobed chevrons,* INCAS BULLETIN, Volume 5, Issue 4/**2013**, pp 15-23, https://bulletin.incas.ro/files/cican_g__crunteanu_d__vol_5_iss_4_2013.pdf (Scopus)

BDI Proceedings papers:

1. Razvan Catana, **Grigore Cican,** *Global Study of the Performance of a Propeller with a Variable Pitch and a Variable Diameter,* International Conference on Cyber Systems in the fields of Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics, Bio mechatronics, Neurorehabilitation and Human motricitiess, OPTIROB-2016 the 12th edition, 25–28 Iunie 2016, Mangalia, Romania, Trans Tech Publications, Switzerland, Applied Mechanics and Materials Vol. 841 (**2016**) pp 298-302, https://www.scientific.net/AMM.841.298 (Scopus)
2. Razvan Catana, **Grigore Cican**, *Detailed gas dynamic study of performances for two types turbofan configurations*, 26th DAAAM International Symposium on Intelligent Manufacturing and Automation, DAAAM **2015,** Croatia, https://www.daaam.info/Downloads/Pdfs/proceedings/proceedings_2015/023.pdf DOI:10.2507/26th.daaam.proceedings.023 (scopus)

3. Catana Razvan-Marius, **Cican Grigore,** *Study of Air Excess in Relation with Engine Parameters for a Generalized Reaction Based on JET-A Fue*, International Conference on Cyber Systems in the fields of Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics, Bio mechatronics, Neurorehabilitation and Human motricitiess, OPTIROB-2015 the 11th edition, 25–28 Iunie 2015, Mangalia, Romania, Trans Tech Publications, Switzerland, Applied Mechanics and Materials Vol. 772 (**2015**) pp 395-400, https://www.scientific.net/AMM.772.395 (Scopus)
4. **Cican Grigore**, Crunteanu Daniel-Eugeniu, El Azzioui Mohamed Yassir, *Performances Study of Liquid Rocket Engine*, International Conference on Cyber Systems in the fields of Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics, Bio mechatronics, Neurorehabilitation and Human motricitiess, OPTIROB-2014 the 10th edition, 26–29 Iunie 2014, Mangalia, Romania, Trans Tech Publications, Switzerland, Applied Mechanics and Materials Vol. 555 (**2014**) pp 84-90, https://www.scientific.net/AMM.555.84 (Scopus)
5. Catana Razvan-Marius, **Cican Grigore,** *A Global Study of the Performances of a New Turbofan Configuration*, International Conference on Cyber Systems in the fields of Aerospace, Robotics, Mechanical Engineering, Manufacturing Systems, Biomechanics, Bio mechatronics, Neurorehabilitation and Human motricitiess, OPTIROB-

2014 the 10th edition, 26–29 Iunie 2014, Mangalia, Romania, Trans Tech Publications, Switzerland, Applied Mechanics and Materials, Vol. 555 (**2014**) pp 78-83, https://www.scientific.net/AMM.555.78 (Scopus)

PAPERS PRESENTED AT NATIONAL AND INTERNATIONAL SCIENTIFIC EVENTS NOT INDEXED

1. Constantin Sandu, Dan Brasoveanu, Raluca Voicu, Marius Deaconu, **Grigore Cican**, Felix Zavodnic, *European Personal Aero-Transportation Using of the Double-Flutter Flight Principle for Manufacturing of Personal Flying-Cars by European Aircraft and Car Maufacturers,* 5th CEAS Air & Space Conference **7-11 Septembrie 2015**, Delft Olanda, https://hugepdf.com/download/technical-papers-5th-ceas-air-space-conference_pdf , https://www.researchgate.net/publication/305316081_European_Personal_Aero-Transportation_Using_of_the_Double-Flutter_Flight_Principle_for_Manufacturing_of_Personal_Flying-Cars_by_European_Aircraft_and_Car_Manufacturers

PATENTS AND PATENT APPLICATIONS

1. RO138102A0 UNMANNED AIRCRAFT WITH FIXED WING, WITH VERTICAL TAKE OFF/LANDING SYSTEM, WITH THREE ROTOR PROPELLING SYSTEM AND METHOD OF INTERCEPTING SPECIFIC SOUNDS EMITTED BY A POWER-SAW WITH HEAT ENGINE.
   Inventors: FRIGIOESCU TIBERIUS FLORIAN [RO]; BADEA PETRE- GABRIEL [RO]; ANGHEL VICTORAŞ-FLORENTIN [RO]; **CICAN GRIGORE [RO];** CONDRUZ MIHAELA RALUCA [RO]; DIMA MARIUS ADRIAN [RO]

PROJECTS

Project manager:

1. Optimized sound absorbent structures for improved acoustic comfort inside helicopter passenger cabin - HeliAC, Nr. 97 BG- PN III-Bridge Grant, PN-III-P2-2.1-BG-2016-0211, P 2 - SP 2.1 - Transfer de cunoaștere la agentul economic „Bridge Grant", period: 2016-2018, http://www.comoti.ro/ro/Proiect_HeliAc.htm
2. Advanced solar thermal propulsion system for increasing of satellite operational life, STRAUSS, Nr. 130, STAR, period: 2017-2019, http://www.comoti.ro/ro/Proiect_STRAUSS.htm?pag=1
3. Studies and research on reducing aircraft engine noise using chevrons, Nr. 81, UPB–EXCELENȚĂ–2015, period: 2016-2017, https://upb.ro/cercetare/competitii-interne-upb/#1524424700792-8e3ae715-a8a0

Project member:

1. Development and implementation of a modern solution to replace Romanian Naval Forces Fast Patrol Boats (Missile) propulsion systems, PN-III-P2-2.1-SOL-2021-2-0169, Call name: P 2 - SP 2.1 - Soluţii – 2021, period: 2021-2024, https://comoti.ro/34sol/
2. Development of a hybrid UAV innovative concept with applications in global warming combating, PN-III-P2-2.1-PTE-2021-0369, P 2 - SP 2.1 - Proiect de transfer la operatorul economic, period: 2022-2024, https://comoti.ro/enforcing/

Member of the team in contracts with the economic sector:

1. **Reevaluation and revision of action plans for reducing ambient noise in the municipality of Craiova**, Public procurement subcontracting contract for consultancy services No. 1400/19.09.2018
2. **Study on the development of transport infrastructure in the Central Region and the need to improve regional connectivity**, Subcontracting contract for specialized consultancy services No. 2972/20.08.2021

1.06.2025 **Prof. Habil. Dr. Eng. Grigore Cican**