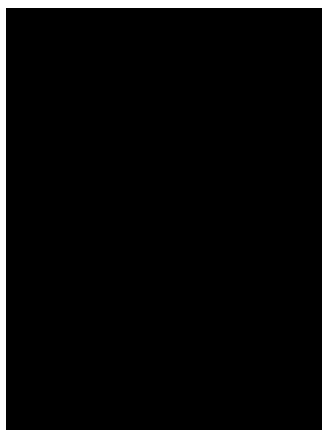


PERSONAL INFORMATION

Chivu Robert-Mădălin



Sex M | Date of birth

Nationality

WORK EXPERIENCE

2025 - 2026	Cercetător postdoctorand Universitatea Maritimă din Constanța. Proiect PNRR Maximizing the Renewable Energy Hosting Capacity of distribution networks MAREHC
2024 - prezent	Cadaru didactic invatamant preuniversitar si postliceal Liceul Carol I Galați
2024 - prezent	Membru proiect <i>Digital transformation of HEIs education process in Ukraine and Moldova for sustainable engagement with enterprises</i>
2024 - 2025	Membru proiect grant intern cercetare “Dunarea de Jos” University of Galati, Romania, grant research
2023 - prezent	Membru Compartimentul de Imagine, Comunicare si Marketing Educational al Universitatii Dunarea de Jos din Galati
2023 - prezent	Asistent universitar la Facultatea de Inginerie Galati. Departamentul Ingineria Materialelor și a Mediului
2021 - prezent	Activitate didactica si de cercetare.

Business or sector Education/ Research

EDUCATION AND TRAINING

2025	Titlul stiintific de doctor conform Ordinului ministrului educatiei si cercetarii
2023 – 2024	Cursuri postuniversitare Psihopedagogie Nivel I si Nivel II

2026 - prezent	Membru Interdisciplinary Research Centre in the Field of Eco-Nano Technology and Advance Materials CC-ITI, Department of Materials and Environmental Engineering, Faculty of Engineering, "Dunărea de Jos" University of Galati,
2022 - prezent	Membru centru de cercetare MEtRICs: Uminho, Guimarães, Portugal
2022 - 2023	Activitate de cercetare la Universitatea Minho din Portugalia, Guimaraes, Laboratorul de motare cu ardere interna.
2021 - 2024	Doctorand la Facultatea de Inginerie, forma de finantare, buget cu bursa, cu activitate didactica, Universitatea „Dunărea de Jos”, Galați, Școala doctorală de Inginerie Mecanică și Industrială Conducator de doctorat: Prof. Dr. Ing. Florin Popescu, Prof. Dr. Ing. Jorge Martins Tema: Combustibili alternativi in motoarele cu ardere interna. Departamentul Sisteme Termice Și Autovehicule Rutiere. Domeniul - Inginerie mecanică.
2019 - 2021	Master. Universitatea "Dunărea de Jos" din Galați Facultatea de Inginerie, Specializarea Modelare și Simulare în Ingineria Mecanică
2015 - 2019	Studii de Licență. Universitatea "Dunărea de Jos" din Galați, Facultatea de Inginerie Specializarea Autovehicule Rutiere
2011-2015	Liceul "Transporturi Căi Ferate" Galați

Mother language (s) Romanian

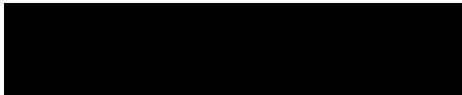
Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills Utilizator
experimentat

PERSONAL SKILLS

Computer skills	❖ AVL ❖ Platforma Microsoft Teams, Zoom, Skype ❖ Diesel RK ❖ National Instruments ❖ LabView ❖ Pachetul Microsoft Office ❖ Autodesk Inventor ❖ Autodesk AutoCAD ❖ CATIA ❖ SolidWorks ❖ Prototipare / Imprimare 3D
Other skills	❖ Cunostinte de utilizare instrumente digitale in predare/invatare. ❖ Experienta de lucru in echipe multiculturale. ❖ Bune abilități de comunicare în urma concursurilor naționale și sesiunilor științifice, conferintelor unde am participat. ❖ Lucrul în echipă. ❖ O bună adaptabilitate la condițiile grele de lucru.
Driving licence	❖ 

ADDITIONAL INFORMATION

Publications

WOS

- ❖ Panaitescu, F.-V., **Chivu, R.-M.**, Panaitescu, M., & Voicu, I. (2026). Dynamic Response Characteristics of PEM Fuel Cells: Enabling Stable Integration of Wind Power and Green Hydrogen. *Sustainability*, 18(9), 4165. <https://doi.org/10.3390/su18094165v>
- ❖ **Chivu, R.-M.**, Panaitescu, M., Panaitescu, F.-V., & Voicu, I. (2026). Modeling and Validating Photovoltaic Park Energy Profiles for Improved Management. *Sustainability*, 18(3),1299. <https://doi.org/10.3390/su18031299>
- ❖ Mocanu, G.; Iosifescu, C.; Ion, I.V.; Popescu, F.; Frățița, M.; **Chivu, R.M.** Energy Analysis of Waste Heat Recovery Using Supercritical CO2 Brayton Cycle for Series Hybrid Electric Vehicles. *Energies* 2024, 17, 2494. <https://doi.org/10.3390/en17112494>
- ❖ **Chivu, R.M.**; Martins, J.; Popescu, F.; Gonçalves, M.; Uzuneanu, K.; Frățița, M.; Brito, F.P. Assessment of Engine Performance and Emissions with Eucalyptus Oil and Diesel Blends. *Energies* 2024, 17, 3528.

<https://doi.org/10.3390/en17143528>

- ❖ **Chivu, R.M.**; Martins, J.; Popescu, F.; Uzuneanu, K.; Ion, I.V.; Goncalves, M.; Codău, T.-C.; Onofrei, E.; Brito, F.P. Turpentine as an Additive for Diesel Engines: Experimental Study on Pollutant Emissions and Engine Performance. *Energies* 2023, 16, 5150. <https://doi.org/10.3390/en16135150>
- ❖ Fratita, M.; **Chivu, R.-M.**; Rusu, E.; Carp, G.B.; Ion, I.; Brito, F.P. Experimental Investigation of Methyl Ester–Ethanol Blends as a Sustainable Biofuel Alternative for Heavy Duty Engines. *Sustainability* **2025**, 17, 253. <https://doi.org/10.3390/su17010253>
- ❖ **Chivu, R. M.**, Martins, J., Popescu, F., Ion, I. V., et al. (2025). The use of turpentine as additive for diesel oil. A review. *Journal of Thermal Engineering*, 11(3), 880-895.
- ❖ E. Codau, T. C. Codau, and **R. M. Chivu**, “Dynamic Heat Transfer Simulation in Textile for Practical Application: A Comparative Analysis of Microscopic and Macroscopic Approaches,” *Textile and Apparel*, vol. 34, no. 3, pp. 275–282, Sep. 2024, doi: 10.32710/TEKSTILVEKONFEKSIYON.1299755.

BDI

- ❖ F Popescu, **R M Chivu**, K Uzuneanu and I Ion, Design and finite element analysis of a circular steel profile frame using Autodesk Inventor, IOP Conf. Ser.: Mater. Sci. Eng. (2022) 1262 012069, DOI 10.1088/1757-899X/1262/1/012069.
- ❖ F Popescu, **R M Chivu**, K Uzuneanu and I Ion, Design and finite element analysis of a lower arm using CATIA V5, IOP Conf. Ser.: Mater. Sci. Eng. (2022) 1262 012070, DOI 10.1088/1757-899X/1262/1/012070
- ❖ **Chivu , R.-M.**, Martins, J., Popescu , F., Ion, I. V., & Fratita, M. (2024). Mixtures of essential oils and alcohols with diesel oil use and impact on engine performance and pollutant emissions. A Review. *Innovative Technologies in Transportation Engineering*, 1(1), 71-87 https://doi.org/10.36910/conf_avto.v1i1.1395

Articole de specialitate neindexate

- ❖ Ion V. Ion, Răzvan Mahu, Florin Popescu, Gabriel Mocanu, and **Robert Chivu**. "Prediction of Tar Formation In A Biomass Heating Boiler" *Вестник Казанского государственного энергетического университета*, vol. 15, no. 1 (57), 2023, pp. 117-124.

