

## **Dr. Ing. Mădălina Barbu**

### **Lista lucrari**

1. 'Performance analysis and comparison of an experimental hybrid PV, PVT and solar thermal system installed in a preschool in Bucharest, Romania' – **Madalina Barbu**, Monica Siroux, George Darie - Energies 2023, Impact Factor 3.252.
2. 'Numerical model and parametric analysis of a liquid based hybrid photovoltaic thermal (PVT) collector' - **Madalina Barbu**, Monica Siroux, George Darie – Energy Reports 2021, Impact Factor 6.87.
3. 'Analysis of a Residential Photovoltaic-Thermal (PVT) System in Two Similar Climate Conditions' - **Madalina Barbu**, George Darie, Monica Siroux – Energies 2019 12(19):3595 – RIS, Impact Factor: 3.252.
4. 'A Parametric Study of a Hybrid Photovoltaic Thermal (PVT) System Coupled with a Domestic Hot Water (DHW) Storage Tank' -**Barbu M**, Darie G, Siroux M. Energies. 2020, Impact Factor: 3.252.
5. 'A technical-economical analysis of the implementation of hybrid solar energy systems in small energy prosumer applications' -**Madalina Barbu**, Roxana Patrascu, George Darie, Diana Tutica - Quality - Access to Success 2019, Impact Factor 0.753.
6. 'Optimizing the non-reheat steam cycle of concentrated solar power plants with molten salt'- Victor-Eduard Cenușă, Mihaela Norișor, Florin-Niculae Alexe, **Mădălina Barbu**, Marian Gioantă - Rev. Roum. Sci. Techn.– Électrotechn. et Énerg. Vol. 64, 3, pp. 281–286, Bucharest, 2019 – RIS, Impact Factor 0.955.
7. 'Assessment of the quota of recuperative cooling of the compressed gas at turbocharged Reciprocating Internal Combustion Engines' - Victor-Eduard Cenușă, Mihaela Norișor, Florin-Niculae Alexe, **Mădălina Barbu** - TEM Journal 2019 8(1), 3-11 – RIS, Impact Factor 1.006.
8. 'Integration of Hybrid Photovoltaic Thermal Panels (PVT) in the District Heating System of Bucharest, Romania' - **Madalina Barbu**, Eduard Minciuc, Dorian Corneliu Frusescu, Diana Tutica - Conference Proceedings: 2021 International Conference on ENERGY and ENVIRONMENT (CIEM)
9. 'A technical analysis and comparison of tubular and lattice towers for wind turbines' **Madalina Barbu**, George Darie - Conference Proceedings EENVIRO 2020

10. Economic analysis of the optimal configuration of thermal and hybrid photovoltaic-thermal panels for a district heating system - Madalina Barbu, Diana Tutica, Mihaela Norisor, Roxana Patrascu, Eduard Minciuc - Conference Proceedings: 2023 International Conference on ENERGY and ENVIRONMENT (CIEM)

11. **M. Barbu**, Etude et optimisation des capteurs solaires photovoltaïques thermiques hybrides et de Leur intégration dans des systèmes énergétiques de petite taille destinés aux prosummateurs, / Optimizarea captorilor hibridi pentru conversia termică și fotovoltaică a energiei solare, PhD thesis, UPB Bucharest, Romania / INSA Strasbourg, France, 2019

12. "Challenges and Opportunities of Distributed Renewable Power" / "Challenges and Opportunities of hybrid photovoltaic thermal collectors and their integration into small-scale energy systems for prosumers" -**Madalina Barbu**, Monica Siroux, George Darie – Springer, ISSN 2522-8366