

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI

FACULTATEA DE CONSTRUCȚII ȘI INSTALAȚII

DEPARTAMENTUL DE INGINERIA INSTALAȚIILOR

Ramura de știință: Inginerie Civilă și Instalații

Domeniul de doctorat: Inginerie Civilă și Instalații

LISTA PORTOFOLIULUI DE LUCRĂRI ȘTIINȚIFICE ELABORATE ÎN DOMENIUL DE DOCTORAT

Conf univ. dr. ing. **BALAN MARIUS COSTEL**

LISTA A MAXIMUM 10 LUCRĂRI, CELE MAI RELEVANTE ÎN DOMENIUL DE DOCTORAT

1. Verdeș M., Burlacu A., Atanasiu M., **Balan M.C.** (2020), SISTEM DE RĂCIRE CU ABSORBȚIE ACȚIONAT CU ENERGIE SOLARĂ, Brevet ISI WEB OF SCIENCE, Nr. RO-134513 A2
2. Vizitiu Stefanica Eliza, Abid Cherifa, Burlacu Andrei, Vizitiu Robert Stefan, **Balan Marius Costel**, Strategic Optimization Of Operational Parameters In A Low-Temperature Waste Heat Recovery System: A Numerical Approach, SUSTAINABILITY, 2024, Volume 16, Issue 16, DOI10.3390/su16167013, WOS:001307583000001, FI=3.30
3. Vizitiu Robert Stefan, Vizitiu Stefanica Eliza, Burlacu Andrei, Abid Cherifa, **Balan Marius Costel**, Kaba Nicoleta Elena, Experimental Investigation Of A Water-Air Heat Recovery System, Sustainability, 2024, Volume 16, Issue 17, DOI10.3390/su16177686, WOS:001311825500001, FI=3,30
4. Robert Stefan Vizitiu, Andrei Burlacu, Cherifa Abid, **Marius Costel Balan**, Stefanica Eliza Vizitiu, Marius Branoaea, Nicoleta Elena Kaba, Investigating The Efficiency Of A Heat Recovery-Storage System Using Heat Pipes And Phase Change Materials, Materials, 2023, Volume 16, Issue 6, DOI:10.3390/ma16062382, WOS:000960211200001, FI=3,748
5. Gavril Sosoi, Cherifa Abid, Marinela Barbuta, Andrei Burlacu, **Marius Costel Balan**, Marius Branoaea, Robert Stefan Vizitiu, Fabrice Rigollet, Experimental Investigation On Mechanical And Thermal Properties Of Concrete Using Waste Materials As An Aggregate Substitution, Materials, 2022, Volume 15, Issue 5, DOI: 10.3390/ma15051728, WOS:000774380200001, FI=3,748
6. Robert Stefan Vizitiu, Andrei Burlacu, Cherifa Abid, Marina Verdes, **Marius Costel Balan**, Marius Branoaea, Experimental And Numerical Study Of Thermal Performance Of An Innovative Waste Heat Recovery System, Applied Sciences-Basel, 2021, Volume 11, Issue 23, <https://doi.org/10.3390/app112311542> WOS:000735062600001, FI=2,838
7. Ana Diana Ancas, Florin-Emilian Turcanu, Mihai Profire, Marina Verdes, **Marius Costel Balan**, Indoor Climate Simulation in a Church During Winter Season, Journal of Applied Engineering Sciences Volume 9: Issue 1, DOI: <https://doi.org/10.2478/jaes-2019-0003>, FI=0,98

8. **Marius-Costel Balan**, Marina Verdes, Ion Serbanoiu, Vasilica Ciocan, Gabriel Teodoriu, Technical-economic Analysis of Ensuring the Heat Independence for Residential Building in Romania, The 7th International Conference Interdisciplinarity in Engineering, INTER-ENG 2013, 10-11 October 2013, Petru Maior University of Tirgu Mures, Romania, ELSEVIER- Procedia Technology, vol. 12, ISSN: 2212-0173, DOI 10.1016/j.protcy.2013.12.534, pp. 591–597, 2014
9. **Marius-Costel Balan**, Marina Verdes, Vasilica Ciocan, Alexandru Verdes, Studiu comparativ privind asigurarea energiei electrice din surse neconventionale de energie pentru o cladire rezidentiala, Comparative study for ensuring electrical energy from unconventional sources for a residential building, Revista Romana de Inginerie Civila, Volumul 4, pag 275-280, ISSN 2068-3987.
10. VS Hudisteanu, Al Baran, **M Balan**, NC Chereches, T Mateescu, M Verdes, V Ciocan, Improvement of the indoor climate conditions inside orthodox churches, Journal Bulletin of the Transilvania University of Brasov. Series I-Engineering Sciences, Pages 403-408

Data: 02.06.2026

Conf. univ. dr. ing. **BALAN MARIUS COSTEL**