

MEMORIU ȘTIINȚIFIC
Drd. ing. Cornel Constantin PAVEL

Studii de doctorat

Perioada: 15.10.2020 – 28.09.2025

Conducător științific: Prof.dr.ing.Tudor PRISECARU

Domeniu: Inginerie Mecanică

Titlul tezei de doctorat: „Contribuții privind creșterea eficienței sistemelor frigorifice cu CO₂ tip Booster prin valorificarea căldurii reziduale”

Activitate științifică

A. Lista de lucrări științifice (articole în reviste sau volume)

A1. Uta, I (Uta, Iulian); Apostol, V (Apostol, Valentin); Pop, H (Pop, Horatiu) (corresponding author); **Pavel, C (Pavel, Constantin)**; Alqaisy, SJS (Alqaisy, Saleh Jassim Saleh) (corresponding author); Badescu, V (Badescu, Viorel); Taban, D (Taban, Daniel); Ionita, C (Ionita, Claudia), „MATHEMATICAL MODELING OF AN EVAPORATOR BY USING DIFFERENT CRITERIAL EQUATIONS”, INMATEH-AGRICULTURAL ENGINEERING, Vol. 67, Issue 2, Pages 562 – 572, 2022, SCOPUS, ISI Thomson Reuters, WOS:000883607300001, I.F. 0.7, ISSN2068-4215, doi:10.35633/inmateh-67-55.

A2. Uta, I (Uta, Iulian); Apostol, V (Apostol, Valentin); Pop, H (Pop, Horatiu); Badescu, V (Badescu, Viorel); **Pavel, C (Pavel, Constantin)**; Ionita, C (Ionita, Claudia), HEAT TRANSFER CHARACTERISTICS OF AN EVAPORATOR EQUIPPING AN AIR HANDLING UNITS FOR CEREAL SEED STORAGE FACILITY, INMATEH-AGRICULTURAL ENGINEERING, Volume 69, Issue 1, Page 597-608, SCOPUS, ISI Thomson Reuters, I.F=0.7, WOS:000996501400046, ISSN2068-4215, eISSN2068-2239, DOI10.35633/inmateh-69-57.

A3. AL Douri, J (AL Douri, Jamal); Apostol, V (Apostol, Valentin); Pop, H (Pop, Horatiu) (corresponding author); Prisecaru, T (Prisecaru, Tudor); **Pavel, CC (Pavel, Cornel Constantin)**; Uta, I (Uta, Iulian); Ionita, C (Ionita, Claudia), IMPROVING PERFORMANCE OF COLD ROOM REFRIGERATION SYSTEM BY DESUPERHEATING ENERGY RECOVERY USING PCMs, INMATEH-AGRICULTURAL ENGINEERING, Volume 70, Issue 2, Page 549-556, SCOPUS, ISI Thomson Reuters, I.F=0.7, WOS:001061835600004, ISSN 2068-4215, eISSN 2068-2239, DOI10.35633/inmateh-70-53.

A4. Apostol V., Pop H., Prisecaru T., Ionita C., Al Douri J., Chiriac A., **Pavel C.C.**, PRELIMINARY THERMODYNAMIC ASESSEMENT OF A REFRIGERATION SYSTEM WITH A PCM BASED DEFROSTING, INMATEH - Agricultural Engineering, Volume 75, Issue 1, pp. 515 - 526, 2025, SCOPUS, ISI Thomson Reuters, I.F=0.7, WOS:001485401300037, ISSN 2068-4215, eISSN 2068-2239 ,DOI: 10.35633/inmateh-75-44.

A5. Pavel C.C.; Apostol V.; Pop H (corresponding author); Prisecaru T.; Ionita C. ; Chiriac A., A Review of Heat and Energy Recovery Possibilities Within CO₂ Refrigeration Systems, INVENTIONS, 2025, Volume 10, Issue 6, 105, WOS:001648305800001, I.F. 1,9, DOI10.3390/inventions10060105.

B. Cărți și manuale

B1. Horațiu Lucian POP, Valentin Gheorghe APOSTOL (coordonator), **Cornel Constantin PAVEL**, Melisa Gabriela TOADER, Iulian UȚĂ, Procese în instalațiile de condiționare a aerului, ISBN 978-606-9608-57-9, CIP nr. 18027/ 03.08.2023, Editura POLITEHNICA PRESS, București, 2023, 151 pagini.

Student-doctorand

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