

F17 Memoriul științific al studentului doctorand

MEMORIU ȘTIINȚIFIC Drd. Christian Popescu

Studii de doctorat

Perioada: 2021-2026

Conducător științific: Prof.habil.dr.ing. Petre Lucian Seiciu

Domeniu: Inginerie mecanică

Titlul tezei de doctorat: „Studiu experimental și numeric privind comportamentul balistic al panourilor hibride pentru protecție individuală”

Activitate științifică

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

1. Deleanu, L., Totolici Rusu, V., Ojoc, G. G., Cristea, G. C., Boțan, M., Vasiliu, A. V., & Popescu, C., „The behaviour of stratified fabrics of aramid fibres under stabbing conditions”. Polymers, 16(7), 882., DOI: 10.3390/polym16070882 WOS:001200973600001, 2024
2. Ceoromila, A. C., Deleanu, L., Popescu, C., Lom, I., Vasiliu, A. V., Seiciu, P. L., ... & Sandu, S. M., „SEM investigation of failure mechanisms in Twaron® aramid fibers used for personal armors”. Polymers, 17(8), 1058. <https://doi.org/10.3390/polym17081058>, WOS:001474511000001, 2025
3. Ojoc G.-G., Rusu V. T., Popescu C., Pirvu C., Deleanu L., „Influence of friction in a case of impact simulation”, INCAS Bulletin, Volume 12, Issue 4, , pp. 145-154, DOI: 10.13111/2066-8201.2020.12.4.13, 2020
4. Pîrnu, C., Popescu, C., Deleanu, L., Vasiliu, A.V. & Ojoc, G.G., „Aspects of Ballistic Panels Made of Unidirectional Aramid Fabrics, Tested Against 9 mm FMJ Projectile”. International conference KNOWLEDGE-BASED ORGANIZATION, 31(3), 2025. 120-128. <https://doi.org/10.2478/kbo-2025-0087>, Accession Number RC:157974615_S24; eISSN 2451-3113, 2025
5. Călinescu, D., Sandu, M. D., Dumitrescu, R., Popescu, C., Alexe, F., & Margin, C., „Approaches to handling major incidents involving chemical, biological, radiological, and nuclear hazards”. In International Conference Knowledge-Based Organization (Vol. 30, No. 3). Pp. 43-48, DOI: 10.2478/kbo-2024-0083, Accession Number RC:146871840_S24; eISSN 2451-3113, 2024
6. Deleanu, L., Rusu, V. T., Ojoc, G. G., Cristea, G. C., Boțan, M., Vasiliu, A. V., & Popescu, C., „Panels made of composite coated aramid fabrics, under spike weapon attack”. In International Conference KNOWLEDGE-BASED ORGANIZATION (Vol. 30, No. 3). <https://doi.org/10.2478/kbo-2024-0085>, Accession Number RC:141806652_S24; eISSN 2451-3113, 2024
7. Popescu, C., Sandu, S., Deleanu, L., Șeiciu, L., & Călinescu, D., „Experimental Study of Twaron T730 For Two Threats”. In International Conference KNOWLEDGE-BASED ORGANIZATION, Vol. 30, No. 3, pp. 121-128, DOI:10.2478/kbo-2024-0093, Accession Number RC:147085397_S24; eISSN 2451-3113, 2024
8. Titire, L. C., Ojoc, G. G., Popescu, C., & Deleanu, L., „Simulation of an impact on an aramid fabric panel by a 357 projectile”. In International Conference KNOWLEDGE-BASED ORGANIZATION, Vol. 29, No. 3, pp. 1-9, <https://doi.org/10.2478/kbo-2023-0068>, Accession Number RC:141277410_S24; eISSN 2451-3113, 2023
9. Ojoc, G. G., Titire, L. C., Pirvu, C., & Popescu, C., „A ballistic impact model for evaluating a preliminary higher level from simulation and tests on a glass fiber composite”. In IOP Conference Series: Materials Science and Engineering (Vol. 1262, No. 1, p. 012057). IOP

10. **Popescu, C.**, Vasiliu, A.V., Călinescu, D., Cristea, G.C., Sandu, S.M. & Deleanu, L.. „Aspects of Ballistic Panels Made of Endumax XF33, Tested Against Different Projectiles”. International conference KNOWLEDGE-BASED ORGANIZATION, 31(3), 2025. 134-141. <https://doi.org/10.2478/kbo-2025-0089>, 2025
11. Avasiloaiei C., Lăzăroaie C., **Popescu C.**, „Cercetări experimentale pentru obținerea spumelor ceramice cu aplicații militare”, Revista Tehnica Militară, numărul 1/2020, pp. 3-7. https://www.acttm.ro/rtm/2020/nr1_2020.pdf, 2020
12. **Popescu C.**, Alexe F., Bugean I., „Evaluarea mediului de lucru în condiții de tragere cu armamentul de infanterie, armamentul de artilerie și activitățile de distrugere”, Revista Tehnica Militară, numărul 1/2022, pp. 77-92. https://www.acttm.ro/wp-content/uploads/2023/03/TEHNICA-MILITARA-nr-1_2022_TIPAR.pdf, 2022
13. **Popescu C.**, Călinescu D., Sandu S., Bugean A., „Noi materiale și structuri de protecție la efectele exploziilor”, Revista Tehnica Militară, numărul 1/2023, pp. 13-27. https://www.acttm.ro/wp-content/uploads/2024/07/TEHNICA-MILITARA-nr-1_2023_TIPAR.pdf, 2023
14. Vasiliu, A. V., **Popescu, C.**, Boțan, M., Pîrvu, C., Azamfirei, V., Badea, S. M., & Deleanu, L. (2025, November 21–23). Could an Endumax Plate Replace Ceramics in Ballistic Protection? Gold Medal and Certificate of Excellence, EURO POLITEHNICUS 2025 – International Innovation and Invention Show, 2nd edition, Bucharest, Romania. „Constantin Brâncuși” University of Târgu Jiu, 2025
15. Ojoc, G. G., Popescu, C., Constandache, M., Azamfirei, V., Badea, S. M., & Deleanu, L. (2025, November 21–23). Quadraxial Glass Fiber Composite for Ballistic Protection. Gold Medal and Special Award, EURO POLITEHNICUS 2025 – International Innovation and Invention Show, 2nd edition, Bucharest, Romania. „Constantin Brâncuși” University of Târgu Jiu, 2025

B. Participări la conferințe/workshop-uri

1. International conference KNOWLEDGE-BASED ORGANIZATION, Sibiu, România, 2025;
2. EURO POLITEHNICUS 2025 – International Innovation and Invention Show, 2nd edition, București, România, 2025
3. International conference KNOWLEDGE-BASED ORGANIZATION, Sibiu, România, 2024;
4. International conference KNOWLEDGE-BASED ORGANIZATION, Sibiu, România, 2023;
5. 10th International Conference on Advanced Concepts in Mechanical Engineering, Iași, România, 2022

Student-doctorand

.....
