Model F17 – Memoriul științific al studentului doctorand

MEMORIU ȘTIINȚIFIC
Drd. COSMIN-NICUȘOR NICOLESCU

Studii de doctorat

Perioada: 01.10.2020-30.10.2025
Conducător științific: Prof.dr.ing.Vasile-Iulian Antoniac
Domeniu: Ingineria Materialelor
Titlul tezei de doctorat: „Acoperiri protective asupra materialelor metalice din industria de apărare"

Activitate științifică

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

1. **Cosmin Nicolescu**, C. Munteanu, Ș. Lupescu, T.V. Țigănescu, M. Miculescu, B. Istrate, I. Antoniac, *Characterization on the Alumina Layer Deposited by Plasma Spray Deposition on the HARDOX Steel for Ballistic Protection*, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 87, Issue 1, Page 215-226, 2025, (Q4, IF = 0,3).
2. **Cosmin Nicolescu**, T.V. Tiganescu, A. Antoniac, O. Iorga, B. Ghiban, A. Pascu, A. Streza, I. Antoniac, *Mechanical Properties and Ballistic Performance for Different Coatings on HARDOX 450 Steel for Defense Applications*, CRYSTALS, Volume 15, Issue 82025, Page 1-21, 2025. https://doi.org/10.3390/cryst15080687 (Q2, IF = 2,4).
3. **Cosmin Nicolescu**, M. Miculescu, T.V. Țigănescu, O. Iorga, F. Alexe, R. Stefănoiu, A. Necșulescu, B. Istrate, I. Antoniac, *Evaluation of the Ballistic Performance for Different Coatings on HARDOX 450 Steel*, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 87, Issue 3, Page 280-294, 2025, (Q4, IF = 0,3).

C. Participări la conferințe/workshop-uri

1. **Cosmin Nicolescu**, I. Antoniac, C. Munteanu, S. Lupescu, L. Dragomir (Nicolescu), B. Istrate, *Morphological Characterization on Al_2O_3 Coatings used for Armor-Grade Steel*, International Conference on Innovative Research, ICIR EUROINVENT 2022, 26-27 mai, Iași, România.
2. **Cosmin Nicolescu**, O. Iorga, F. Alexe, V. Tigănescu, C. Munteanu, S. Lupescu, B. Istrate, L. Dragomir (Nicolescu), I. Antoniac, *Characterization of Microstructure and Mechanical Behavior of Al_2O_3 Coatings Deposited by Atmospheric Plasma Spraying Technique on HARDOX Steel*, 9th International Conference on Materials Science and Technologies – RoMat 2022, 24-25 noiembrie, București, România.
3. **Cosmin Nicolescu**, V. Tigănescu, M. Miculescu, I. Antoniac, O. Iorga, *Adhesion Evaluation of Different Coatings on HARDOX Steel for Ballistic Structures*, 10th International Conference on Materials Science and Technologies – RoMat 2024, 14-15 noiembrie, București, România.
4. **Cosmin Nicolescu**, A. Bița, R. Ciocoiu, M. Miculescu, I. Antoniac, *Analysis of the Mechanical Properties of HARDOX Steel Coated with Different Materials*, International Conference on Innovative Research, ICIR EUROINVENT 2025, 08-09 mai, Iași, România.

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