

LISTA DE LUCRĂRI ȘTIINȚIFICE

1. Lista celor mai relevante 10 lucrări științifice

1. **BUCUR, F., MATAACHE, L.-C., LUPOAE, M.,**
A numerical study on explosively formed projectiles in low density environments for typical metallic liners materials,
UPB Scientific Bulletin, Series B: Chemistry and Materials Science, vol. 86, no. 3, pp. 213-226, 2024.
https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez3cf_283842.pdf
Indexat Web of Science, WOS:001301114000017
2. **BUCUR, F., MATAACHE, L.-C.,**
Assessment of Multilayered Plates with Hyperelastic Coatings Subjected to Dynamic Loadings by Impact at Low Velocities,
Materiale Plastice, vol. 61, no. 1, pp. 170-184, 2024.
<https://doi.org/10.37358/MP.24.1.5712>
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3. **IFTIMIE, B., CASAPU, A.C., LUPOAE, M., BUCUR, F., TRANĂ, E.,**
Experimental tests related to the multi-layered ballistic panel behaviour under blast and fragments impact,
UPB Scientific Bulletin, Series B: Chemistry and Materials Science, vol. 86, no. 1, pp. 273-289, 2024.
https://www.scientificbulletin.upb.ro/rev_docs_arhiva/fullcd9_209760.pdf
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4. **CHIRIAC, O.-G., BUCUR, F., ROTARIU, A.-N., TRANĂ, E.,**
The Application of Mott's Distribution in the Fragmentation of Steel Coaxial Cylinders,
Materials, vol. 16, no. 17: 5783, 2023.
<https://doi.org/10.3390/ma16175783>
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5. **ROTARIU, A., TRANĂ, E., MATAACHE, L., CIRMACHI-MATEI, M.-V., SANDU, S., MOLDOVEANU, C.-E., BUCUR, F.*,**
Experimental study on the dynamic response of polyurethane/fly ash ceramic foam,
Materiale Plastice, vol. 58, no. 1, pp. 106-112, 2021.
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6. TOADER, G., DIACON, A., RUSEN, E., RIZEA, F., TEODORESCU, M., STĂNESCU, P., DAMIAN, C., ROTARIU, A., TRANĂ, E., **BUCUR, F.**, GINGHINĂ, R.,
A facile synthesis route of hybrid polyurea-polyurethane-MWCNTs nanocomposite coatings for ballistic protection and experimental testing in dynamic regime,
Polymers, vol. 13, no. 10: 1618, 2021.
<https://doi.org/10.3390/polym13101618>
Indexat Web of Science, WOS:000655163400001
7. **BUCUR, F.**, ROTARIU, A., MATACHE, L., BACIU, F., JIGA, G., TRANĂ, E.,
Experimental and Numerical Study on the Behavior of Dyneema® HB26 Composite in Compression,
Materiale Plastice, vol. 53, no. 2, pp. 670-674, 2020.
<https://doi.org/10.37358/MP.20.2.5357>
Indexat Web of Science, WOS: 000579451200012
8. **BUCUR, F.**, TRANĂ, E., ROTARIU, A.,
Numerical and experimental study on the locally blast loaded polyurea coated steel plates,
Materiale Plastice, vol. 56, no. 3, pp. 492-499, 2019.
<https://doi.org/10.37358/MP.19.3.5216>
Indexat Web of Science, WOS: 000487764000005
9. GAVRUȘ, A., **BUCUR, F.**, ROTARIU, A., CĂNĂNĂU, S.,
Mechanical behavior analysis of metallic materials using a Finite Element modeling of the SHPB test, a numerical calibration of the bar's elastic strains and an inverse analysis method,
International Journal of Material Forming, vol. 8, no. 4, pp. 567-579, 2015.
<https://doi.org/10.1007/s12289-014-1180-0>
Indexat Web of Science, WOS:000360829700007
10. **BUCUR, F.**, TRANĂ, E., ROTARIU, A., GAVRUȘ, A., BARBU, C., GUINES, D.,
Experimental and numerical analysis concerning the behaviour of OL50 steel specimens coated with polyurea layer under dynamic conditions,
EPJ Web of Conferences, EDP Sciences, vol. 94: 04044,
11th International Conference on the Mechanical and Physical Behaviour of Materials under Dynamic Loading, DYMAT 2015.
<https://doi.org/10.1051/epjconf/20159404044>
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2. Teza de doctorat

1. „*Contribuții la îmbunătățirea factorului de protecție a blindajelor pentru autovehicule militare*”, Școala Doctorală de Sisteme Mecanice și Aerospațiale pentru Apărare și Securitate, Inginerie Civilă și Industrială, Academia Tehnică Militară, 2015.

3. Brevete de invenție și alte titluri de proprietate industrială

4. Cărți și capitole în cărți publicate în ultimii 10 ani

1. **Florina BUCUR**, Cristian-Emil MOLDOVEANU, Adrian-Nicolae ROTARIU, *Modelarea și simularea fenomenelor aerodinamice cu aplicații în domeniul sistemelor de armament*, Editura Academiei Tehnice Militare „Ferdinand I”, ISBN 978-973-640-324-8, 140 pg., 2020.
2. Cristian-Emil MOLDOVEANU, **Florina BUCUR**, Pamfil ȘOMOIAG, *Aerodinamica proiectilelor, bombelor și rachetelor*, Editura Academiei Tehnice Militare „Ferdinand I”, ISBN 978-973-640-325-5, 180 pg., 2020.
3. Amado ȘTEFAN, **Florina BUCUR**, Andrei INDREȘ, *Rezistența Materialelor. Îndrumar pentru efectuarea lucrărilor de laborator în domeniul elastic*, Editura Academiei Tehnice Militare „Ferdinand I”, ISBN 978-973-640-314-9, 148 pg., 2020.
4. Pamfil ȘOMOIAG, Cristian-Emil MOLDOVEANU, **Florina BUCUR**, Andrei MANDACHE, *Calculul și construcția armamentului de artilerie. Îndrumar de laborator pentru proiectarea legăturilor elastice*, Editura Academiei Tehnice Militare „Ferdinand I”, ISBN 978-973-640-318-7, 84 pg., 2020.
5. **Florina BUCUR**, *Testarea și evaluarea la scară redusă a structurilor supuse încărcărilor prin explozie*, Editura Academiei Tehnice Militare, ISBN 978-973-640-242-5, 150 pg., 2015.

5. Articole publicate în reviste din fluxul științific internațional principal

A. Articole publicate în reviste internaționale cotate ISI

- 1 articol publicat în revista cotate WOS, de rang JCR - Q2, Materials:

1. CHIRIAC, O., **BUCUR, F.**, ROTARIU, A.-N., TRANĂ, E., *The Application of Mott's Distribution in the Fragmentation of Steel Coaxial Cylinders*, Materials, vol. 16, no. 17: 5783, 2023.
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- 1 articol publicat în revista cotate WOS, de rang JCR - Q1, Polymers:

1. TOADER, G., DIACON, A., RUSEN, E., RIZEA, F., TEODORESCU, M., STĂNESCU, P.O., DAMIAN, C., ROTARIU, A., TRANĂ, E., **BUCUR, F.**, GINGHINĂ, R., *A Facile Synthesis Route of Hybrid Polyurea-Polyurethane- MWCNTs Nanocomposite Coatings for Ballistic Protection and Experimental Testing in Dynamic Regime*, Polymers, vol. 13, no. 10: 1618, 2021.
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- 1 articol publicat în revista cotate WOS, International Journal of Material Forming:

1. GAVRUȘ, A., **BUCUR, F.**, ROTARIU, A., CĂNĂNĂU, S., *Mechanical behavior analysis of metallic materials using a Finite Element modeling of the SHPB test, a numerical calibration of the bar's elastic strains and an inverse analysis method*, International Journal of Material Forming, vol. 8, no. 4, pp. 567-579, 2014.
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- 6 articole publicate în revista cotate WOS, *Materiale Plastice*:

1. **BUCUR, F.**, MATAACHE, L.-C., *Assessment of Multilayered Plates with Hyperelastic Coatings Subjected to Dynamic Loadings by Impact at Low Velocities*, *Materiale Plastice*, vol. 61, no. 1, pp. 170-184, 2024.
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2. ROTARIU, A., TRANĂ, E., MATAACHE, L., CIRMACI-MATEI, M.-V., SANDU, S., MOLDOVEANU, C.-E., **BUCUR, F.***, *Experimental study on the dynamic response of polyurethane/fly ash ceramic foam*, *Materiale Plastice*, vol. 58, no 1, pp. 106-112, 2021.
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3. **BUCUR, F.**, ROTARIU, A., MATAACHE, L., BACIU, F., JIGA, G., TRANĂ, E., *Experimental and Numerical Study on the Behavior of Dyneema® HB26 Composite in Compression*, *Materiale Plastice*, vol. 53, no. 2, pp. 670-674, 2020.
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4. TRANĂ, E., **BUCUR, F.**, ROTARIU, A., *On the fragmentation of explosively-driven plastic/steel layered cylinders*, *Materiale Plastice*, vol. 55, no. 4, pp. 521-523, 2018.
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5. **BUCUR, F.**, TRANĂ, E., ROTARIU, A., *Numerical and experimental study on the locally blast loaded polyurea coated steel plates*, *Materiale Plastice*, vol. 56, no. 3, pp. 492-499, 2019.
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6. ROTARIU, A., **BUCUR, F.***, TOADER, G., LUPOAE, M., SAVA, A., ȘOMOIAG, P., CIRMACI-MATEI, M.V., *Experimental study on polyurea coating effects on deformation of metallic plates subjected to air blast loads*, *Materiale Plastice*, vol. 53, no. 4, pp. 670-674, 2016.
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- 1 articol publicat în revista cotate WOS, *Proceedings of the Romanian Academy*:

1. TRANĂ, E., ROTARIU, A.N., ROTARIU, T., PULPEA, B., MOLDOVEANU, C.-E., **BUCUR, F.**, MATAACHE, L.C., GOZIN, M., *Experimental study on aluminum foils use in blast enhancement application*, *Proceedings of the Romanian Academy, Series A*, vol. 20, no. 3, pp. 275-283, 2019.
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- 3 articole publicate în revista cotate WOS, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*:

1. **BUCUR, F.**, MATAACHE, L.-C., LUPOAE, M., *A numerical study on explosively formed projectiles in low density environments for typical metallic liners materials*, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, vol. 86, no. 3, pp. 213-226, 2024.
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2. IFTIMIE, B., CASAPU, A.-C., LUPOAE, M., **BUCUR, F.**, TRANĂ, E., *Experimental tests related to the multi-layered ballistic panel behaviour under blast and fragments impact*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, vol. 86, no. 1, pp. 273-289, 2024.
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3. ROTARIU, A.N., MATAACHE, L., **BUCUR, F.**, CIRMACHI-MATEI, M.V., MĂRMUREANU, M., TRANĂ, E., *Implementation of a Gumbel distribution function in interior ballistic calculations for deterred propellants*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, vol. 82, no. 1, pp. 167-178, 2020.
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B. Articole publicate în reviste indexate Scopus și volume indexate ISI Proceedings

1. HURMUZACHE, A., **BUCUR, F.***, PUICĂ, C., ROTARIU, A.-N., *Numerical Study on the Performance of a Ceramic/Kevlar 29 Fiber Ballistic Package Against Small-Caliber Kinetic Threats*, Macromolecular Symposia, e70423, 2026.
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<https://www.scopus.com/pages/authors/55800474300>
2. VLĂDESCU, B., ȘTEFAN, A., VEDINAȘ, I., **BUCUR, F.**, *Experimental and numerical determination of the hydrodynamic characteristics for a small-scale model of a submersed vehicle*, UPB Scientific Bulletin, Series D: Mechanical Engineering, vol. 86, no. 3, pp. 77-86, 2024.
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3. CHIRIAC, O., ROTARIU, A.-N., **BUCUR, F.**, *The application of Mott's distribution in the fragmentation of steel coaxial cylinders*, Proceedings - 33rd International Symposium on Ballistics, BALLISTICS 2023, vol. 1: 194571, pp. 711-716, 2013.
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4. **BUCUR, F.**, ROTARIU, A., JIGA, G., BACIU, F., TRANĂ, E., *On the experimental testing procedures for ultra-high molecular weight polyethylene (UHMWPE) behaviour evaluation in static and dynamic regime*, Scientific Bulletin of Naval Academy, vol. 23, no. 2, pp. 53-58, 2020.
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5. **BUCUR, F.**, ROTARIU, A., TRANĂ, E., ȘTEFAN, A., *Experimental and numerical study on the mitigation capability of some special design structures*, International Journal of Modern Manufacturing Technologies, vol. XII, no. 1, pp. 7-15, 2020.
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6. ȘTEFAN, A., NEGRU, A., **BUCUR, F.**, *On the analytical, numerical and experimental models for determining the mode shapes of transversal vibrations of a cantilever beam*, UPB Scientific Bulletin, Series D: Mechanical Engineering, vol. 82, no. 4, pp. 169-178, 2020.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85097110024&origin=resultslist>
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7. ROTARIU, A.N., **BUCUR, F.**, CIRMACHI-MATEI, M.V., MATAACHE, L.C., TRANĂ, E., *Development of the analytic relations for the propellant grain geometrical characteristics required for a maximum pressure plateau feature*, Journal of Physics: Conference Series, vol. 1507, no. 2: 022025, 2020.
<https://www.scopus.com/record/display.uri?eid=2-s2.0-85088503776&origin=resultslist>
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8. MATAACHE, L., PUICĂ, C., ROTARIU, A., TRANĂ, E., **BUCUR, F.**, *Numerical simulation of military ground vehicle's response to mine-blast load*, UPB Scientific Bulletin, Series D: Mechanical Engineering, vol. 80, no. 4, pp. 153-162, 2018.
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9. **BUCUR, F.**, TRANĂ, E., ROTARIU, A., GAVRUS, A., BARBU, C., GUINES, D., *Experimental and numerical analysis concerning the behaviour of OL50 steel grade specimens coated with polyurea layer under dynamics loadings*, EPJ Web of Conferences, vol. 94: 04044, 2015.
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10. GAVRUȘ, A., **BUCUR, F.**, ROTARIU, A., CĂNĂNĂU, S., *Analysis of metallic materials behavior during severe loadings using a FE modeling of the SHPB test based on a numerical calibration of elastic strains with respect to the raw measurements and on the inverse analysis principle*, Trans Tech Publication (TTP), Periodical Journal ISI Proceedings: Key Engineering Materials, vol. 554-557, pp. 1133-1146, 2013.
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C. Articole publicate în reviste naționale indexate în baze de date internaționale sau recunoscute CNCSIS

- 5 articole publicate în revista Revista Academiei Tehnice Militare, indexată E B S C O, Ulrich's Periodicals Directory și Google Scholar:

1. GRIGORE, L., ȘTEFAN, A., **BUCUR, F.**, VLĂDESCU, B., MOLDER, C., GORGOTEANU, D., *Considerations of Collision Avoidance by a Maritime Robot*, Journal of Military Technology, vol. 6, no. 1, pp. 5-8, ISSN-L: 2601-6613, Jun. 2023.
2. **BUCUR, F.**, BARBU, C., ȚIGĂNESCU, T., *A research study regarding the determination and rating of the protection factor for tactical field autovehicles*, MTA Review, vol. XXV, no. 3, pp. 217-224, ISSN 1843-3391, Sept. 2015.
3. **BUCUR, F.**, ROTARIU, A., TRANĂ, E., RENCHEZ, B., *Numerical study of small-scale structures response on blast loadings*, MTA Review, vol. XXV, no. 3, pp. 321-330, ISSN 1843-3391, Sept. 2015.
4. TRANĂ, E., ROTARIU, A., **BUCUR, F.**, *Numerical simulation study on the ring fragmentation*, MTA Review, vol. XXV, no. 2, pp. 179-189, ISSN 1843-3391, Iun. 2015.

5. BUCUR, F., BARBU, C., NĂSTĂSESCU, V., ROTARIU, A., TRANĂ, E.,
Numerical analysis concerning the behavior of metallic plates subjected to blast load,
MTA Review, vol. XXIV, no. 4, pp. 159-176, ISSN 1843-3391, Dec. 2014.

6. Publicații apărute în volumele ale principalelor conferințe internaționale de specialitate

1. VINTILĂ, A.-G., BUCUR, F.*, ROTARIU, A.-N., DIMA, S.-E., SANDU, A.-M.,
Experimental study on the ballistic impact performance of multilayer side body armor,
International Scientific Conference “Defense Technologies” DefTech 2026,
Shumen, Bulgaria, 24-26 September, 2026.
2. BUCUR, F.*, DIRLOMAN, F.-M., BERECHET, C.-D., ROTARIU, A.-N.,
Analiza Profilului de Gâtuire ca Instrument pentru Caracterizarea Mecanică a Materialelor Ductile/ Necking Profile Analysis as a Tool for the Mechanical Characterization of Ductile Materials,
Conferința Științifică de Toamnă a Academiei Oamenilor de Știință din România,
Târgoviște, România, 09-11 Septembrie, 2026.
3. SPOIALĂ, A., ROTARIU, A.-N., MATAACHE, L.C., TRANĂ, E., BUCUR, F.,
Numerical Study of the Ballistic Performance of Two Oblique Perforated High Hardness Plates,
AuxDefense 2026 – 5th World Conference on Advanced Materials for Defense,
Funchal, Madeira, Portugal, 1-3 July, 2026.
4. CHIRIAC, O.-G., ROTARIU, A.-N., DIRLOMAN, F.-M., BUCUR, F.,
A Comparative Technical Analysis of Anti-Drone System Technologies: Kinetic, Laser and High-Power Microwave Approaches,
SEA-CONF 2026 – Scientific International Conference,
Constanța, România, 14–16 May 2026.
5. ENACHE, A., ROTARIU, A.-N., MATAACHE, L.-C., DIRLOMAN, F.-M., BUCUR, F.,
DAN, A.-I., CHIRIAC, O., *Manufacturing and testing of a small size explosive charge used to propel steel balls arranged in planar double layers*
International Scientific Conference “Defense Technologies” DefTech 2025,
Shumen, Bulgaria, 24-25 September, 2025.
6. HURMUZACHE, A., BUCUR, F.*, PUICĂ C., ROTARIU A., *Numerical Study on the Performance of a Ceramic/Kevlar 29 Fiber Ballistic Package Against Small-Caliber Kinetic Threats*,
The 12th International Conference on Structural Analysis of Advanced Materials (ICSAAM 2025),
Brașov, Romania, September 15-18, 2025.
7. SPOIALĂ, A., ROTARIU, A.-N., MATAACHE, L.C., TRANĂ, E., BUCUR, F.,
Numerically study for assesement of ballistic efficiency of high hardnes perforated plates with unconventional holes,
21st International Conference on EXPERIMENTAL MECHANICS,
Italy – Bologna, 6-11th, July 2025.

8. BUCUR, F., HALLER, L.-O., DIMA, S.-E., ROTARIU, A.-N., CÎRMACI-MATEI, M.-V., MIRCIOAGĂ, R., *Experimental assessment of ballistic protection configurations used to ensure the operational safety of outdoor shooting ranges*, **Provocări și Strategii în Ordinea și Siguranța Publică – Ediția a X-a, Academia De Poliție „Alexandru Ioan Cuza”**, București, România, 12-13 December 2024.
9. BUCUR, F., CÎRMACI-MATEI, M.-V., ROTARIU, A.-N., MATAACHE, L.-C., HALLER, L., DIMA, S.-E., MIRCIOAGĂ, R., *Experimental and numerical study of high velocity impacts on ballistic protection configurations*, **International Scientific Conference “Defense Technologies” DefTech 2024**, Shumen, Bulgaria, 20-22 September, 2024.
10. ROTARIU, A., BUCUR, F., DÎRLOMAN, F., MALCIU A., SPOIALĂ A., *Using of the pre-notched composite plates in the delamination tests at low impact velocity*, **Joint event of the International Conference on the Dynamic Behaviour of Composites – DyCOMP and European Conference on Crashworthiness of Composite Structures – ECCCS**, Enna, Sicily, Italy, 3-5 September, 2024.
11. ROTARIU, A., MATAACHE, L., BUCUR, F., TRANĂ, E., DÎRLOMAN, F., *The use of the necking profile on the determination of strains in a round specimen*, **3rd International Conference on Nonlinear Solid Mechanics (ICoNSoM 2024)**, Cagliari, Sardinia, Italy, June 11-14, 2024.
12. MATAACHE, L.C., ROTARIU, A.N., BUCUR, F., TRANĂ, E., *The dynamic response to low-velocity impact of thin aluminum plates coated with polyurea*, **3rd International Conference on Nonlinear Solid Mechanics (ICoNSoM 2024)**, Cagliari, Sardinia, Italy, June 11-14, 2024.
13. CHIRIAC, O., ROTARIU, A.-N., BUCUR, F., TRANĂ, E., *The application of Mott’s distribution in the fragmentation of steel coaxial cylinders*, **33rd International Symposium on Ballistics, BALLISTICS 2023**, Bruges, Belgium, 16-20 October, 2023.
14. BURDUCEA, I., BUCUR, F.*, PUICĂ, C., ROTARIU, A., *Numerical study on ballistic impact performance of bulletproof vest inserts*, **International Scientific Conference “Defense Technologies” DefTech 2023**, Shumen, Bulgaria, 27-29 September, 2023.
15. DUMITRU, I.-M., BUCUR, F.*, ȘTEFAN, A., *On the analysis method for pressure tubes failure produced by environmental conditions*, **4th International Conference on Material and Structural Mechanics**, Marrakesh, Maroc, 24-26 May, 2023.
16. ROTARIU, A.-N., MATAACHE, L.-C., BUCUR, F., DÎRLOMAN, F., *The influence of the elastic modulus on the simulation results of the polyurethane foam samples dynamic crush*, **4th International Conference on Material and Structural Mechanics**, Marrakesh, Maroc, 24-26 May, 2023.
17. MATAACHE, L.-C., ROTARIU, A.-N., BUCUR, F., TRANĂ, E., PULPEA, B., BORȘ, R., *Thermal transfer analysis in classical weapon systems*, **4th International Conference on Material and Structural Mechanics**, Marrakesh, Maroc, 24-26 May, 2023.

18. VLĂDESCU, B., ȘTEFAN, A., BUCUR, F., *Aspecte legate de dinamica vehiculelor imersate tractate cu cablu,*
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Bucharest, Romania, May 24-25, 2023.
19. ROTARIU, A.-N., CHIRIAC, O., MATAACHE, L.-C., BUCUR, F., *2D numerical simulation of two metallic concentric tubes explosively-driven,*
25th Seminar New trends in research of energetic materials,
Pardubice, Czech Republic, 19-21 April, 2023.
20. ROTARIU, A., MATAACHE, L., BUCUR, F., DÎRLOMAN, F., *Simulation of the polyurethane foam samples dynamic crush,*
4th International Conference on Environment, Chemical Engineering & Materials
Atena, Grecia, 27- 29 December 2022.
21. BUCUR, F., SPOIALĂ, A., ȘOMOIAG, P., *Review and performance analysis of the novel materials used in ballistic protection,*
9th International Conference on Materials Science and Technologies – RoMat 2022
Bucharest, Romania, November 24-25, 2022.
22. GRIGORE, L.-Ș., ȘTEFAN, A., BUCUR, F., VLĂDESCU, B., *Collision avoidance considerations by a maritime robot,*
9th International Conference on Materials Science and Technologies – RoMat 2022
Bucharest, Romania, November 24-25, 2022.
23. ROTARIU, A.N., MATAACHE, L.C, BUCUR, F., PUICĂ, C., MALCIU, A., PULPEA, B., PREDESCU, I., *5.56 mm small-caliber bullet interaction with multilayered targets,*
9th International Conference on Materials Science and Technologies – RoMat 2022
Bucharest, Romania, November 24-25, 2022.
24. SAVASTRE, A., SAVA, A.-C., SURDU, G., MOLDOVEANU, C.-E., BUCUR, F., *Experimental evaluation on the performances of shock wave absorption modules based on polyurethane foam composites,*
9th International Conference on Materials Science and Technologies – RoMat 2022
Bucharest, Romania, November 24-25, 2022.
25. ROTARIU, A.-N., CIRMACI-MATEI, M.-V., BUCUR, F., MATAACHE, L.-C., PULPEA, B., DÎRLOMAN, F., MALCIU, A., SAVA, A., *The conception of a non-standardized test for assessing the efficiency of the inner layer of the ballistic helmets,*
International Scientific Conference “Defense Technologies” DefTech 2022,
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26. ROTARIU, A.-N., MATAACHE, L., BUCUR, F., PULPEA, B., DÎRLOMAN, F., TRANĂ, E., *Investigation on the delamination of pre-notched UHMWPE composite plates at the low impact velocity,*
23rd European Conference on Fracture, (ECF23)
Funchal, Madeira, Portugal, 27 June-1 July, 2022.
27. ROTARIU, A., MATAACHE, L., BUCUR, F., DÎRLOMAN, F., TURTOI, P., ENESCU, C., TRANĂ, E., *Assessment of the Non-Newtonian Liquid Filled Cell Potential to Mitigate the Impact Force,*
19th International Conference on Experimental Mechanics,
Kraków, Poland, 17-21 July, 2022.

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7. Alte lucrări și contribuții științifice

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