

Lista lucrărilor științifice

A. Lista de lucrări reprezentative

1. **F.-M. Dîrloman**, A.-N. Rotariu, T. Rotariu, G.-F. Noja, R.-E. Ginghină, N.-D. Zvîncu, Ballistic and thermal characterisation of greener composite solid propellants based on phase stabilized ammonium nitrate, *Case Studies in Thermal Engineering* **2024**, <https://doi.org/10.1016/j.csite.2024.103987>, (Indexat Web of Science, WOS:001166632100001, **FI₂₀₂₄=6,4**).
2. **Dîrloman, F.M.**; Toader, G.; Rotariu, T.; Țigănescu, T.; Ginghină, R.; Petre, R.; Alexe, F.; Ungureanu, M.; Rusen, E.; Diacon, A.; Ghebaur, A.; Duldner, M.; Coman, A.; Țincu, R. Novel Polyurethanes Based on Recycled Polyethylene Terephthalate: Synthesis, Characterization, and Formulation of Binders for Environmentally Responsible Rocket Propellants. *Polymers* **2021**, 13(21), 3828; <https://doi.org/10.3390/polym13213828>. (Indexat Web of Science, WOS:000718659500001, **FI₂₀₂₁=4,967**).
3. Rotariu, T.; Pulpea, B.-G.; **Dîrloman, F.-M. (autor corespondent)**; Diacon, A.; Rusen, E.; Toader, G.; Zvîncu, N.-D.; Iordache, T.-V.; Botiș, R.H. The Influence of Potassium Salts Phase Stabilizers and Binder Matrix on the Properties of Novel Composite Rocket Propellants Based on Ammonium Nitrate. *Materials* **2022**, 15, 8960. <https://doi.org/10.3390/ma15248960>. (Indexat Web of Science, WOS:000904287300001, **FI₂₀₂₂=3,4**).
4. **Dîrloman, F. M.**, Rotariu, A. N., Rotariu, T., Matache, L. C., Mircioagă, R. M., Iorga, O. G., & Dan, I. A., (2026), Development and Characterization of Composite Rocket Propellants Based on a Novel Binder Formulation. *Combustion Science and Technology*, 1–20. <https://doi.org/10.1080/00102202.2026.2654700> (Indexat Web of Science, WOS:001743263300001, **FI₂₀₂₄₋₂₀₂₅=1,5**).
5. Traian Rotariu, Dorin-Nicolae Holeoleo, Adrian-Nicolae Rotariu, Ioana Barcan, Andreea Elena Moldovan, Gabriela Toader, Aurel Diacon, Bogdan-Gheorghe Pulpea, Ovidiu-George Iorga, Oana Brîncoveanu, **Florin-Marian Dîrloman (autor corespondent)**, LOVA Propellant Formulations Based on RDX and GAP Energetic Plasticizer Obtained by Precipitation Method, *FirePhysChem*, **2026**, ISSN 2667-1344, <https://doi.org/10.1016/j.fpc.2026.03.009> (Web of Science, **FI₂₀₂₅₋₂₀₂₆=3,6**).
6. **Florin-Marian Dîrloman**, Traian Rotariu, Gabriela Toader, Dorin-Nicolae Holeoleo, Aurel Diacon, Adrian- Nicolae Rotariu, Eugen Trană, Ovidiu-George Iorga, Mihail Munteanu, Florentina Alexe, Ioan Călinescu, Novel polyurethane formulations based on bio-polyols: Synthesis, characterization and applicability in composite rocket propellant mixtures, *FirePhysChem*, **2026**, ISSN 2667-1344, <https://doi.org/10.1016/j.fpc.2026.03.006> (Web of Science, **FI₂₀₂₅₋₂₀₂₆=3,6**).
7. Eugen Trană, Laviniu Haller, **Florin-Marian Dîrloman**, George Dobrin, Gabriela Toader, Adrian Rotariu, Oana Brincoveanu, Experimental and numerical evaluation of REGUPOL E43 mechanical and ballistic properties, *Scientific Reports*, **2025**, 15, 23568, <https://doi.org/10.1038/s41598-025-08210-z> (Indexat Web of Science, WOS:001522003700001, **FI₂₀₂₄₋₂₀₂₅=3,9**).
8. Marin Alexandru, Ovidiu George Iorga, Gabriela Toader, Cristiana Epure, Mihail Munteanu, Adrian Nicolae Rotariu, Marius Marmureanu, Gabriel Flavius Noja, Aurel Diacon, Tudor Viorel Tigănescu, **Florin Marian Dîrloman**, FDM - 3D printing of thermoplastic composites with high energetic solids content designed for gun propellants, *Defence Technology*, **2025**, ISSN 2214-

- 9147, <https://doi.org/10.1016/j.dt.2025.02.024>. (Indexat Web of Science, WOS:001533960000001 **FI**₂₀₂₄₋₂₀₂₅=**5,9**).
9. Răzvan-Marian Mircioagă, Baptiste Reynier, Tudor Prisecaru, Adrian-Nicolae Rotariu, **Florin-Marian Dîrloman**, Liviu-Cristian Matache, Laviniu Haller, Advancing ignition techniques for energetic materials: A comparative study of direct laser ignition and laser-driven flyer methods, Defence Technology, 2025, ISSN 2214-9147, <https://doi.org/10.1016/j.dt.2025.09.005> (Indexat Web of Science, WOS:001691262600001, **FI**₂₀₂₄₋₂₀₂₅=**5,9**).
 10. **Florin-Marian Dîrloman**, Aurel Diacon, Oana Brincoveanu, Gabriela Toader, Miron Adrian Dinescu, Ioan Călinescu, Petre Chipurici, Edina Rusen, Alexandra Mocanu, Synthesis of rigid polyurethane foam from bio-based polyol obtained from microwave-assisted depolymerization of corn cob waste, RSC Advances, 2025, 15, 18158-18172, <https://doi.org/10.1039/D5RA00487J>. (Indexat Web of Science, WOS:001499999000001, **FI**₂₀₂₄₋₂₀₂₅=**4,6**).

B. Teza de doctorat

1. **Titlul tezei:** "Materiale compozite polimerice pentru noi generații de combustibili de rachetă"
Conducător de doctorat: Col.prof.univ.dr.ing. Tudor-Viorel ȚIGĂNESCU
Instituția: Academia Tehnică Militară "Ferdinand I", Școala Doctorală "Ingineria sistemelor de apărare și securitate", Domeniul "Inginerie Mecanică", 2023.

C. Brevete de invenție și alte titluri de proprietate industrială

1. Duldner Monica-Mirela, Coman Alina-Elena, Zaharia Anamaria, Iordache Tanța Verona, Sârbu Andrei, Rotariu Traian, **Dîrloman Florin-Marian**, Hubca Gheorghe, Damian Celina Maria, **Compoziții poliester-poliolice pentru poliuretani elastomeri, metoda de obținere a acestora și materiale compozite pentru combustibili solizi de rachete încorporând respectivele compoziții poliester-poliolice**, A2021-00438/28.07.2021, premiat cu "Medalia de aur" la Salonul Internațional al Cercetării Științifice, Inovării și Inventicii- PRO INVENT, Ediția XX, 26-28 octombrie 2022, Cluj-Napoca.
2. Istrate Marcel, Rotariu Traian, Toader Gabriela, Moldovan Elena Andreea, Esanu Sorin Răzvan, Pulpea Daniela, **Dîrloman Florin Marian**, Podaru Alice Ionela, Iordache Tanța Verona, Gavrilă Ana-Mihaela, **Nanocompozite polimerice biodegradabile, cu proprietăți peliculogene, destinate decontaminării suprafețelor și procedeu pentru obținerea și utilizarea acestora**, A2021-00340/16.06.2021.

D. Cărți și capitole în cărți

1. **Florin-Marian DÎRLOMAN**, Traian ROTARIU, Adrian-Nicolae ROTARIU, *Tehnologii de fabricație a materialelor energetice*, Editura Academiei Tehnice Militare "Ferdinand I", București, Romania, pp. 187, 2026, ISBN 978-973-640-366-8.
2. Constantin ENACHE, **Florin-Marian DÎRLOMAN**, *Considerații privind testarea și evaluarea munițiilor*, Editura Academiei Tehnice Militare "Ferdinand I", București, Romania, pp. 129, 2026, ISBN 978-973-640-367-5.
3. L.C. Matache, A.N. Rotariu, T. Homutescu, **F. Dîrloman**, *Simularea numerică în rezolvarea problemelor de balistică interioară*, Editura Academiei Tehnice Militare "Ferdinand I", București, Romania, pp. 171, 2023, ISBN 978-973-640-339-2.
4. Gabriela NOJA, Marius MĂRMUREAMU, Adrian ROTARIU, Ovidiu IORGA, **Florin DÎRLOMAN**, Adrian MALCIU, *Aspecte privind viitorul munițiilor de artilerie. Fabricarea*

aditivă a pulberilor de azvârlire/propergoli solizi, pp. 124 - 167, capitol de carte *Artileria modernă și tehnologiile avansate*, coord.: George Bucăța, Florin Ilie, Stelian Popescu; pref.: Prof.univ.dr.habil. Mircea Vladu, Editura Academiei Forțelor Terestre "Nicolae Bălcescu", 2024, Sibiu, Romania, ISBN 978-973-153-561-6.

5. **Florin-Marian DÎRLOMAN**, Liviu-Criatian MATACHE, *Îndrumar de laborator - Testarea și evaluarea propergolilor solizi*, Editura Academiei Tehnice Militare "Ferdinand I", București, Romania, pp. 188, 2024, ISBN 978-973-640-346-0, ISBN Vol I 978-973-640-347-7.

E. Articole/studii în extenso publicate în reviste din fluxul științific internațional principal

1. **Dîrloman, F. M.**, Rotariu, A. N., Rotariu, T., Matache, L. C., Mircioagă, R. M., Iorga, O. G., & Dan, I. A., (2026), Development and Characterization of Composite Rocket Propellants Based on a Novel Binder Formulation. *Combustion Science and Technology*, 1–20. <https://doi.org/10.1080/00102202.2026.2654700> (Indexat Web of Science, WOS:001743263300001, FI₂₀₂₄₋₂₀₂₅=1,5).
2. Ovidiu-George Iorga, Aurel Diacon, Alexandru Marin, Raluca Ginghină, Mihail Munteanu, Radu-Cristian Cioflan, Gabriela Toader, Traian Rotariu, Elena-Andreea Moldovan, **Florin-Marian Dîrloman**, Edina Rusen & Tudor-Viorel Țigănescu, (2026), Pyrotechnic Hybrid Formulations for Cloud Seeding and Hail Mitigation: EXPLO5 Modelling-Driven Design and Combustion-Aerosol Analysis. *Combustion Science and Technology*, 1–18. <https://doi.org/10.1080/00102202.2026.2656893> (Indexat Web of Science, WOS:001735364300001, FI₂₀₂₄₋₂₀₂₅=1,5).
3. Traian Rotariu, Dorin-Nicolae Holeoleo, Adrian-Nicolae Rotariu, Ioana Barcan, Andreea Elena Moldovan, Gabriela Toader, Aurel Diacon, Bogdan-Gheorghe Pulpea, Ovidiu-George Iorga, Oana Brîncoveanu, **Florin-Marian Dîrloman (autor corespondent)**, LOVA Propellant Formulations Based on RDX and GAP Energetic Plasticizer Obtained by Precipitation Method, *FirePhysChem*, 2026, ISSN 2667-1344, <https://doi.org/10.1016/j.fpc.2026.03.009> (Web of Science, FI₂₀₂₅₋₂₀₂₆=3,6).
4. **Florin-Marian Dîrloman**, Traian Rotariu, Gabriela Toader, Dorin-Nicolae Holeoleo, Aurel Diacon, Adrian- Nicolae Rotariu, Eugen Trană, Ovidiu-George Iorga, Mihail Munteanu, Florentina Alexe, Ioan Călinescu, Novel polyurethane formulations based on bio-polyols: Synthesis, characterization and applicability in composite rocket propellant mixtures, *FirePhysChem*, 2026, ISSN 2667-1344, <https://doi.org/10.1016/j.fpc.2026.03.006> (Web of Science, FI₂₀₂₅₋₂₀₂₆=3,6).
5. Răzvan-Marian Mircioagă, Baptiste Reynier, Tudor Prisecaru, Adrian-Nicolae Rotariu, **Florin-Marian Dîrloman**, Liviu-Cristian Matache, Laviniu Haller, Advancing ignition techniques for energetic materials: A comparative study of direct laser ignition and laser-driven flyer methods, *Defence Technology*, 2025, ISSN 2214-9147, <https://doi.org/10.1016/j.dt.2025.09.005> (Indexat Web of Science, WOS:001691262600001, FI₂₀₂₄₋₂₀₂₅=5,9).
6. Eugen Trană, Laviniu Haller, **Florin-Marian Dîrloman**, George Dobrin, Gabriela Toader, Adrian Rotariu, Oana Brîncoveanu, Experimental and numerical evaluation of REGUPOL E43 mechanical and ballistic properties, *Scientific Reports*, 2025, 15, 23568, <https://doi.org/10.1038/s41598-025-08210-z> (Indexat Web of Science, WOS:001522003700001, FI₂₀₂₄₋₂₀₂₅=3,9).
7. Marin Alexandru, Ovidiu George Iorga, Gabriela Toader, Cristiana Epure, Mihail Munteanu, Adrian Nicolae Rotariu, Marius Marmureanu, Gabriel Flavius Noja, Aurel Diacon, Tudor Viorel

- Tiganescu, **Florin Marian Dîrloman**, FDM - 3D printing of thermoplastic composites with high energetic solids content designed for gun propellants, *Defence Technology*, **2025**, ISSN 2214-9147, <https://doi.org/10.1016/j.dt.2025.02.024>. (Indexat Web of Science, WOS:001533960000001 **FI**₂₀₂₄₋₂₀₂₅=**5,9**).
8. **Florin-Marian Dîrloman**, Aurel Diacon, Oana Brincoveanu, Gabriela Toader, Miron Adrian Dinescu, Ioan Călinescu, Petre Chipurici, Edina Rusen, Alexandra Mocanu, Synthesis of rigid polyurethane foam from bio-based polyol obtained from microwave-assisted depolymerization of corn cob waste, *RSC Advances*, **2025**, *15*, 18158-18172, <https://doi.org/10.1039/D5RA00487J>. (Indexat Web of Science, WOS:001499999000001, **FI**₂₀₂₄₋₂₀₂₅=**4,6**).
 9. **Florin DÎRLOMAN**, Gabriel-Flavius NOJA, Adrian ROTARIU, Traian ROTARIU, Eugen TRANĂ, Ovidiu IORGA, Narcis GÎLCĂ, Development and characterization of novel illumination pyrotechnic formulations, *International Conference KNOWLEDGE-BASED ORGANIZATION*, Vol. XXX, No 3, 2024, <https://doi.org/10.2478/kbo-2024-0086>.
 10. Cristiana EPURE, Tudor-Viorel ȚIGĂNESCU, Gabriel EPURE, Ovidiu IORGA, Gabriela TOADER, Mihail MUNTEANU, Alexandru MARIN, Daniela SANDU, **Florin-Marian DÎRLOMAN**, Insights into polymeric binder-driven variations of chemical, viscoelastic properties and compatibility in novel pyrotechnic composites, *U.P.B. Sci. Bull., Series B, Vol. 86, Iss. 4, 2024*, pg. 156-166. (Indexat Web of Science, WOS:001380943500012)
 11. **F.-M. Dîrloman**, A.-N. Rotariu, T. Rotariu, G.-F. Noja, R.-E. Ginghină, N.-D. Zvîncu, Ballistic and thermal characterisation of greener composite solid propellants based on phase stabilized ammonium nitrate, *Case Studies in Thermal Engineering* **2024**, <https://doi.org/10.1016/j.csite.2024.103987>, (Indexat Web of Science, WOS:001166632100001, **FI**₂₀₂₄=**6,4**).
 12. Rusen, E.; Toader, G.; Diacon, A.; **Dîrloman, F.**; Matache, L.; Alexe, F.; Dinescu, A.; Mocanu, A. Synthesis and mechanical performances of polyurethane bio-based adhesives resulted from the depolymerization of lignocellulose biomass, *ACS Omega* **2023**, doi.org/10.1021/acsomega.3c04393, (Indexat Web of Science, WOS:001082649500001, **FI**₂₀₂₂₋₂₀₂₃=**4,1**).
 13. Pulpea, D.; Pulpea, B.G.; Matache, L.; Rotariu, A.; Gabriela, T.; Rotariu, T.; **Dîrloman, F.**; Șomoiaș, P.; Podaru, A.; Ungureanu, M.I. Mechanical proprieties of peelable coatings employed for cbm decontamination. *UPB Scientific Bulletin, Series B: Chemistry and Materials Science* **2023**, *85*, 153-164. (Indexat Web of Science, WOS:000957802300012)
 14. Bogdan Gheorghe Pulpea, Cristian-Valentin Nuță, Daniela Pulpea, Adrian Rotariu, Eugen Trană, Gabriela Toader, Traian Rotariu, **Florin Dîrloman**, Pamfil Șomoiaș, Mihai Ionuț Ungureanu, Characterization of pyrotechnic composition used in tracer ammunitions, *UPB Sci. Bull., Series B, Vol. 85, Iss. 2, 2023*, pg. 185-198. (Indexat Web of Science, WOS:001015437100016)
 15. Răzvan Mircioagă, Adrian Rotariu, Tudor Prisecaru, **Florin Dîrloman**, Bogdan Pulpea, Ionuț Predescu, Experimental study regarding burning process specific to different types of propellants by means of closed vessel tests, *UPB Sci. Bull., Series D, Vol.85, Iss. 2, 2023*, pg. 177-186. (Indexat Scopus)
 16. **Dîrloman, M. Florin**, Traian Rotariu, Adrian N. Rotariu, Gabriela Toader, Liviu C. Matache and Gabriel F. Noja. "Mechanical Compression Behaviour of "Green" Rocket Propellants. *Probl. Mechatronics. Armament Aviat. Saf. Eng.* **2023**, *14* (2): 9-18, doi.org/10.5604/01.3001.0053.6668.

17. Toader, G.; Moldovan, A. E.; Diacon, A.; **Dîrloman, F. M.**; Rusen, E.; Podaru, A.; Rotariu, T.; Ginghina, R. E.; Hoza, O. E., Effect of Aromatic Chain Extenders on Polyurea and Polyurethane Coatings Designed for Defense Applications. *Polymers* **2023**, *15* (3). (Indexat Web of Science, WOS:000932568500001, **FI**₂₀₂₃=**4,7**).
18. Pulpea, B. G.; Pulpea, D.; Trană, E.; Rotariu, T.; Ginghină, R. E.; Toader, G.; **Dîrloman, F. M.**, Design and Evaluation of Screening Smoke Compositions Based on Red Phosphorus in Open Field Conditions. *Appl. Sci.* **2022**, *12* (24). (Indexat Web of Science, WOS:000902226600001, **FI**₂₀₂₂=**2,7**).
19. Gabriel-Flavius Noja, Adrian Rotariu, Marius-Ionuț Mărmureanu, Adrian Malciu, **Florin-Marian Dîrloman**, Bogdan Pulpea, Theoretical and experimental research on gun propellant burning. *Probl. Mechatronics. Armament Aviat. Saf. Eng.* **2022**, *13*(4):9-22, doi:10.5604/01.3001.0016.1453.
20. Rotariu, T.; Pulpea, B.-G.; **Dîrloman, F.-M. (autor corespondent)**; Diacon, A.; Rusen, E.; Toader, G.; Zvîncu, N.-D.; Iordache, T.-V.; Botiș, R.H. The Influence of Potassium Salts Phase Stabilizers and Binder Matrix on the Properties of Novel Composite Rocket Propellants Based on Ammonium Nitrate. *Materials* **2022**, *15*, 8960. <https://doi.org/10.3390/ma15248960>. (Indexat Web of Science, WOS:000904287300001, **FI**₂₀₂₂=**3,4**).
21. Tigănescu, T.V.; Grigoriu, N.; Ginghină, R.E.; Epure, G.; Iorga, O.; Oncioiu, R.; **Dîrloman, F.M.** Analysis of unaged and aged composite rocket propellant formulations by FTIR and SEM/EDX. *UPB Scientific Bulletin, Series B: Chemistry and Materials Science* **2022**, *84*, 217-226. (Indexat Web of Science, WOS:000813376200017)
22. Ungureanu, M.I.; Matache, L.C.; Rotariu, T.; Barbu, C.; **Dîrloman, F.M.** High blast explosive composition for annular thermobaric ammunitions. *UPB Scientific Bulletin, Series B: Chemistry and Materials Science* **2021**, *83*, 263-272. (Indexat Web of Science, WOS:000731356100022)
23. **Dîrloman, F.M.**; Toader, G.; Rotariu, T.; Țigănescu, T.; Ginghină, R.; Petre, R.; Alexe, F.; Ungureanu, M.; Rusen, E.; Diacon, A.; Ghebaur, A.; Duldner, M.; Coman, A.; Țincu, R. Novel Polyurethanes Based on Recycled Polyethylene Terephthalate: Synthesis, Characterization, and Formulation of Binders for Environmentally Responsible Rocket Propellants. *Polymers* **2021**, *13*(21), 3828; <https://doi.org/10.3390/polym13213828>. (Indexat Web of Science, WOS:000718659500001, **FI**₂₀₂₁=**4,967**).
24. Toader, G.; Pulpea, D.; Rotariu, T.; Diacon, A.; Rusen, E.; Moldovan, A.; Podaru, A.; Ginghină, R.; Alexe, F.; Iorga, O.; Bajenaru, S. A.; Ungureanu, M.; **Dîrloman, F.**; Pulpea, B.; Leonat, L., Strippable polymeric nanocomposites comprising “green” chelates, for the removal of heavy metals and radionuclides. *Polymers* **2021**, *13* (23), DOI10.3390/polym13234194 (Indexat Web of Science, WOS:000734573600001, **FI**₂₀₂₁=**4,967**).
25. **Dîrloman, F.M.**; Rotariu, T.; Țigănescu, T.V.; Toader, G.; Zecheru, T.; Iordache, T.V. Phase stabilized ammonium nitrate for future green rocket propellants. *UPB Sci. Bull.* **2021**, *83*, 87–100. (Indexat Web of Science, WOS:000692192600008)
26. **Florin-Marian Dîrloman**, Liviu-Cristian MATACHE, Traian ROTARIU, Tudor Viorel Țigănescu, Neculai-Daniel Zvîncu, Mihai-Ionuț Ungureanu, Ovidiu Iorga, Computational fluid dynamics simulations for composite rocket propellant optimization, *IOP Conference Series Materials Science and Engineering* 1182(1):012017, **2021**. DOI: 10.1088/1757-899X/1182/1/012017.
27. Neculai-Daniel ZVÎNCU, Cristian-Emil MOLDOVEANU, Andrei MANDACHE-DODOIU, **Florin-Marian DÎRLOMAN**, Ioan VEDINAȘ, Research on small caliber weapons firing

ranges security enhancement considering the projectile-obstacle impact, *IOP Conf. Series: Materials Science and Engineering* 1182, **2021** 012086, doi:10.1088/1757-899X/1182/1/012086.

28. **Florin-Marian Dîrloman**, Tudor-Viorel Țigănescu, Teodora Zecheru, Concerns on reducing the environmental impact of solid propellants, The International Conference "Education and Creativity For A Knowledge Based Society", **14-16 Noiembrie 2019** - Universitatea "Titu Maiorescu", București, ISSN 2248-0064, ISBN 978-3-9503145.

F. Publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

1. Dorin Holeoleo, Aurel Diacon, Traian Rotariu, Adrian Rotariu, **Florin Dîrloman**, Synthesis and characterization of a new energetic compound: 1,1,2,2-tetra-(1H-tetrazol-5yl)cyclopropane (HDEX-252), *Proceedings of the 28th International Seminar on New Trends in Research of Energetic Materials*, **2026**, Pardubice, Cehia.
2. Ioana-Alexandra Dan, **Florin-Marian Dîrloman**, Adrian Rotariu, Liviu-Cristian Matache, Traian Rotariu, Study on performance and safety characteristics of multilayer composite propellants, *Proceedings of the 27th International Seminar on New Trends in Research of Energetic Materials*, **2025**, Pardubice, Cehia.
3. Dorin Holeoleo, Traian Rotariu, **Florin-Marian Dîrloman**, Adrian Rotariu, Aurel Diacon, Bogdan Pulpea, LOVA propellants based on RDX and GAP energetic plasticizers - Part 2, *Proceedings of the 27th International Seminar on New Trends in Research of Energetic Materials*, **2025**, Pardubice, Cehia.
4. Alexandru Enache, Adrian-Nicolae Rotariu, Liviu-Cristian Matache, **Florin-Marian Dîrloman**, Florina Bucur, Alexandra-Ioana Dan, Octavian Chiriac, Manufacturing and testing of a small size explosive charge used to propel steel balls arranged in planar double layers, *Defense Technology Forum 2025*, Shumen, Bulgaria.
5. Dana Andreea Alexandra Pîrvoi, Liviu-Cristian Matache, Mădălina-Gabriela Butnaru, **Florin-Marian Dîrloman**, Pamfil Șomoiaș, Comparative analysis of shaped charge and water jets: The influence of shock impedance on target response, *Defense Technology Forum 2025*, Shumen, Bulgaria.
6. **Florin-Marian Dîrloman**, Octavian Grigoroșiu, Adrian-Nicolae Rotariu, Cristian-Emil Moldoveanu, Dana Pîrvoi, Mădălina Butnaru, Octavian Chiriac, Experimental and computational fluid dynamics simulations for water jet propulsion using explosive energy optimization, *Defense Technology Forum*, **2025**, Shumen, Bulgaria.
7. **Florin-Marian Dîrloman**, Traian Rotariu, Gabriela Toader, Aurel Diacon, Ștefan Curte, Development of energetic materials based on glycidyl azide polymer, *Defense Technology Forum 2024*, Shumen, Bulgaria.
8. **Florin-Marian Dîrloman**, Traian Rotariu, Gabriela Toader, Aurel Diacon, George-Ovidiu Iorga, Development and characterization of novel polyurethane formulations for composite rocket propellants, *Proceedings of the 26th Seminar on New Trends in Research of Energetic Materials* **2024**, Pardubice, Cehia.
9. Dorin Holeoleo, Traian Rotariu, **Florin-Marian Dîrloman**, Adrian Nicolae Rotariu, Ioana Barcan, LOVA propellants based on RDX and GAP energetic plasticizers, *Proceedings of the 26th Seminar on New Trends in Research of Energetic Materials* **2024**, Pardubice, Cehia.
10. Răzvan Marian Mircioaga, Bogdan Pulpea, Adrian Nicolae Rotariu, **Florin-Marian Dîrloman**,

- Study of the gun powders ignition by laser beam in closed vessels, *Proceedings of the 26th Seminar on New Trends in Research of Energetic Materials* **2024**, Pardubice, Cehia.
11. Neculai-Daniel Zvîncu, Stefania-Melania Bardac, Pamfil Somoia, **Florin-Marian Dîrloman**, Mihai-Ionuț Ungureanu, Costin-Dumitru Berechet, Theoretical assesment of factors influencing artillery fire accuracy, *Defense Technology Forum* 2023, **2023**, Shumen, Bulgaria
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