

Universitatea: *Academia Tehnică Militară „Ferdinand I”*

Facultatea: A

Departament: A-2

Conf.dr.ing. Marin Lupoae

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Considerații privind utilizarea exploziilor controlate la demolarea construcțiilor, conducător științific gl.bg. (r) prof. univ. dr. ing. Gheorghe OPREA, Academia Tehnică Militară, București, 2004, conducător științific general (r) prof. dr. ing. Gheorghe OPREA, 2004

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

Marin Lupoae – *Muniții de geniu*, Editura Academiei Tehnice Militare, București, 2017, 224 pag., ISBN 978-973-640-265-4.

Marin Lupoae, Cătălin Baci – *Efectele încărcărilor extreme asupra construcțiilor*, Editura Academiei Tehnice Militare, București, 2016, 208 pag., ISBN 978-973-640-256-2.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

C1. Lucrări indexate ISI:

1. **Lupoae M.**, Cotovanu A., Casapu A., Baci C., Constantin D., Berechet C., Murzea P. - *Experimental investigations on explosive breaching mechanisms for exterior metal doors and explosive effects on room occupants*, Journal of Protective Structures, Vol. 17 (2), 2026, pp. 577-601.
2. Casapu C.A., **Lupoae M.**, Trană E., Berechet C. - Experimental analysis of the omnidirectional explosive devices used to neutralize IED, UPB Scientific Bulletin Series B Chemistry and Materials Science, 87(2), pp. 251–26, 2025.
3. Bucur F., Matache L., Lupoae M. - *A numerical study on explosively formed projectiles in low density environments*, Scientific Bulletin Series B-Chemistry and Materials Science, 86 (3), 2024.
4. 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*, U.P.B. Sci. Bull., Series B, Vol. 86, Iss. 1, 2024, pp 273-289.
5. Iftimie Bogdan, **Lupoae Marin**, Trana Eugen - *Aspects of determining impact induced shock characteristics in multilayered ballistic panel materials*, U.P.B. Sci. Bull., Series B, Vol. 85, Iss. 3, 2023, pp 155-166.
6. Cătălin Baci, **Marin Lupoae**, Anabella Coțovanu, Daniel Constantin, Marian Craioveanu - *Simulation and experimental tests of door breaching using multifunctional propulsion devices*, U.P.B. Sci. Bull., Series B, Vol. 85, Iss. 2, 2023.
7. Eugen Trană, **Marin Lupoae**, Bogdan Iftimie, A. C. Casapu - *Assessment of the Sympathetic Detonation of Blasting Caps*, Appl. Sci. 12, 12761, 2022.
8. Lucian Ștefăniță Grigore, Damian Gorgoteanu, Cristian Molder, Octavian Alexa, Ionica Oncioiu, Amado Ștefan, Daniel Constantin, **Marin Lupoae**, Răzvan-Ionuț Bălașa - *A dynamic motion analysis of a six-wheel ground vehicle for emergency intervention actions*, Sensors, 21(5), pp. 1618, <https://doi.org/10.3390/s21051618>, 2021
9. Iftimie Bogdan, **Marin Lupoae**, Orban Octavian - *Experimental Investigations Regarding the Behaviour of Composite Panels Based on Polyurea and Kevlar or Dyneema Layers Under Blast and Fragments*, Revista de Materiale Plastice, vol. 56, nr. 3, septembrie 2019, pp. 538-542

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10. Catalin Baci, **Marin Lupoae**, George Bogdan Nica, Daniel Constantin - Experimental and Numerical Studies of the Progressive Collapse of a Reinforced Concrete-Framed Structure Using Capacity Curves, Arabian Journal of Science and Engineering (2019), 44(10), 8805-8818, DOI: 10.1007/s13369-019-03964-x
11. George Bogdan Nica, **Marin Lupoae**, Florin Pavel, Catalin Baci, Numerical Analysis of RC Column Failure Due to Blast and Collapse Scenarios for an Irregular RC-Framed Structure, International Journal of Civil Engineering, vol 16, no 9, september 2018, pp 1125-1136, doi <https://doi.org/10.1007/s40999-017-0265-9>, online version, ISSN 1735-0522, 10.1007/s40999-017-0265-9.
12. **Marin Lupoae**, Francois Windeck, David Breaud, Cătălin Baci - *The masonry behaviour under contact detonation*, Urbanism Architecture Constructions, vol 8, nr. 1, 2017, pp. 81-90, ISSN 2069-6469.
13. Adrian Rotariu, Florina Bucur, Gabriela Toader, **Marin Lupoae**, Alin Constantin Sava, Pamfil Somoia - *Experimental Study on Polyurea Coating Effects on Deformation of Metallic Plates Subjected to Air Blast Loads*, Materiale plastice, vol.53, No 4, 2016, pp. 670-674, ISSN 0025-5289.
14. **Marin LUPOAE**, Alexandru-Catalin CASAPU, Dumitru Costin BERECHET, Daniel CONSTANTIN, Cătălin BACIU - Asymmetric Explosive Systems used to Accelerate Water Jets for IEDs Neutralization, 10th International Conference on Military Technologies ICMT 2025, 27 - 30 May 2025, Brno, Czech Republic, 10.1109/ICMT65201.2025.11061362
15. Bogdan Sebacher, Stefan-Adrian Toma, **Marin Lupoae**, Mihai Lica Pura - *On the Modelling of Urban Infrastructure Deformation Profiles Using the Applied Element Method and Multiple Hypothesis Testing*, IEEE International Geoscience and Remote Sensing Symposium- IGARS, 2018, pp. 874-877.

C2. Lucrări indexate BDI:

1. Toma Vlad, Olaru Gheorghe, Stefan Amado, **Lupoae Marin**, Constantin Daniel, Molder Cristian - *Considerations on the kinematics analysis of an EOD robot's manipulator*, 14th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2022 Ploiesti 30 - 1 July 2022, DOI 10.1109/ECAI54874.2022.9847461
2. Cătălin Baci, **Marin Lupoae**, Daniel Constantin – Experimental Analysis on reduced scale protective doors, 2018, WIT Transactions on The Built Environment, 2018, vol. 180, pp. 101-111
3. Marin Lupoae, **Catalin BACIU** *Effect of Different Bracing Systems on the Performance of Metallic Tower*, Journal of Military Technology, Vol. 5, No. 1, Jun. 2022, ISSN: 2601-6613
3. Marin Lupoae, **Cătălin Baci**, Daniel Constantin - *Aspects regarding the blast loads on protective doors*, MTA Review, vol XXVII, No 1, June, 2017, pp 19 – 24, ISSN: **1843-3391**
4. 4. Ovidiu G. Iorga, Octavian Orban, Tudor V. Țigănescu, Andreea Voicu, **Marin Lupoae** – *Experimental investigations regarding the thermobaric explosive devices*, MTA Review, vol XXVII, No 1, June, 2017, pp 5 – 8.
5. Tudor V. Țigănescu, Eugen Trană, Adrian Rotariu, **Marin Lupoae**, Ovidiu G. Iorga, Andreea E. Voicu - *Experimental testing setup for study of Ti/steel foam/Ti sandwich plate behavior*, Proceedings of the International Conference „20th International Seminar – New Trends in Research of Energetic Materials”, Czech Republic, April 2017, ISBN 978-80-7560-056-1.
6. Cătălin Baci, **Marin Lupoae**, Daniel Constantin, Alexandru Casapu - *Experimental and Numerical Analysis of Scale Model Protective Door Under Blast Loadings*, Proceedings Of Researchora International Conference Edinburgh, United Kingdom, 24-26 november 2017, pp. 1-4, DOI online RF.23102017.919.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. Casapu A., **Lupoae M.**, Constantin D., Berechet C. - *Experimental analysis of liquid jet propulsion systems effects on IEDs casing materials*, Proceedings of the 26th Seminar on New Trends in Research of Energetic Materials, pp. 50 – 57, Pardubice, Czech Republic, 17-19 April, 2024, ISBN 978-80-7560-507-8
2. **Lupoae M.**, Baci C., Cotovanu A., Casapu A. - *Experimental investigation on door breaching using explosives and its effects on room occupants*, Proceedings of the 26th Seminar on New Trends in Research of Energetic Materials, Pardubice, Czech Republic, 118-125, 19 April, 2024, ISBN 978-80-7560-507-8

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E. Brevete obținute în întreaga activitate

1. *Structură de protecție balistică* (RO 133792 A0, BOPI Nr.12/2019)

Data: 09.04.2026

Semnătura:

