

LISTĂ DE LUCRĂRI ȘI INVENȚII

LISTA CELOR MAI RELEVANTE 10 LUCRĂRI

1. **Ciupan, M.**, Campean, E., Titu, A. M. (2022). Software for generating a spur gear's involute profile and alternative manufacturing method. Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Special Issue I, presented at the QIEM-ICNcT 2021 Conference, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1736>
2. Ciupan, E., Cionca, I., **Ciupan, M.**, & Campean, E. (2022). The optimization of costs for the thermoformed frames from natural fiber composites. Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Special Issue I, presented at the QIEM-ICNcT 2021 Conference, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1736>
3. **Ciupan, M.**, Cionca, I., Heres, V., & Rusan, C. (2021). Milling a Large Mold for the Thermoforming of a Plant Fiber Composite Chair. Nonconventional Technologies Review, 25(1), <http://www.revtn.ro/index.php/revtn/article/view/326>
4. Rusan, C. I., **Ciupan, M.**, & Ciupan, C. (2021). Optimization and Static Analysis of The FLP2000 Portal Milling Bed Frame From: Cast Iron Construction to Welded Construction, Acta Tehnica Napocensis, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1567>
5. **Ciupan, M.** (2020). Dynamic Analysis and Comparison of Different Designs of Milling Machine Beds Made of Mineral Casting. Acta Technica Napocensis - Applied Mathematics, Mechanics and Engineering, Vol 63, No 3, September 2020, p. 335-342, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1380>
6. **Ciupan, M.**, Popa, M. S., & Ciupan, E. (2019). Method and Program for the Interpolation of Experimental Results of Determining the Mechanical Properties of Mineral Composites for Modern Machine-Tools. MATEC Web of Conferences, 299(05009), MTeM Conference, <https://doi.org/10.1051/mateconf/201929903012>.
7. **Ciupan, M.**, & Popa, M. S. (2018). Mechanical Properties Of The Structural Elements Of Machine-Tools. Acta Technica Napocensis - Applied Mathematics, Mechanics and Engineering, Vol 61, No 1, March 2018, pag. 121-130, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/969>.
8. **Ciupan, M.** (2018). Finite Element Analysis of the Stress Distribution in a Representative Elementary Volume of Mineral Casting. MATEC Web of Conferences, 178(04010), IManE&E Conference, <https://doi.org/10.1051/mateconf/201817804010>
9. **Ciupan, M.**, Popa, M. S., Sosa, I. P., Contiu, G., & Ciupan, E. (2018). Development and Testing of Mineral Casting for Use in Structural Elements and Mold Making. 2018 International Conference on Production Research – Africa, Europe and the Middle East 4th International Conference on Quality and Innovation in Engineering and Management, July 25-26, 2018, Cluj-Napoca, Romania. Acta Technica Napocensis - Applied Mathematics, Mechanics and Engineering, Vol 61, No 3, Special Issue, September 2018), pp. 29-34, WOS:000451702200004, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1044>
10. **Ciupan, M.**, & Ciupan, E. (2016). Comparison of Machine-Tool Structures Made of Cast Iron or Mineral Casting. 2016 International Conference on Production Research – Africa, Europe and the Middle East 4th International Conference on Quality and Innovation in Engineering

and Management, July 25th-30th, 2016, Cluj-Napoca, Romania. ICPR Proceedings, pag. 309-316, ISBN 978-606-737-180-2 WOS:000436122900055

TEZA DE DOCTORAT

1. **Ciupan, M.** (2020). Contribuții privind proiectarea unor componente structurale din materiale compozite pentru mașini-unelte moderne.
- susținută în 31/07/2020 la Universitatea Tehnică din Cluj-Napoca
- titlul de doctor conferit în 13/10/2020

BREVETE ȘI CERERI DE BREVET DE INVENȚIE

1. Ciupan, C., **Ciupan, M.**, Ciupan E. Metodă de producere a lucrului mecanic și motor termic rotativ pentru aplicarea acesteia. Brevet RO nr. 129731/2020
2. **Ciupan, M.** Sistem de etanșare pentru presiuni înalte. Brevet RO nr. 130127/2020
3. Moldovan, I., **Ciupan, M.** Sistem de semnalizare auto. Cerere de brevet publicată RO132649A2/A2/2018
4. **Ciupan, M.** Metodă pentru optimizarea designului experimental folosind diagrame Voronoi, aplicată pentru betoane polimerice”. Cerere de brevet publicată RO135128/A2/2021

CĂRȚI

1. **Ciupan, M.** (2022). Principiile proiectării totale. Editura UTPress, Cluj-Napoca
2. Ciupan, C., Pop, E. S., Miron Borzan, C., Scurtu, L.-I., Popan, A., Panc, N., Damian, M., Steopan, M., Pop, G. M., Curta, R., & **Ciupan, M.** (2019). Îndrumător pentru Practica Studenților în Atelierul Mecanic, UTPress, Cluj-Napoca

ALTE LUCRĂRI PUBLICATE

1. **Ciupan, M.**, Ciupan, E., Cionca, I., Heres, V., Muresan, C. (2022). Assessing the Influence of Mechanical Properties of a Polypropylene and Hemp Composite on The Design of Upholstered Furniture. Acta Technica Napocensis - Applied Mathematics, Mechanics and Engineering, Vol. 65, Issue I, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1787>
2. Rusan, C.-I., **Ciupan, M.**, Ciupan C. (2022). Design of a Linear Hydraulic Micro-Turbine to Compensate the Energy Consumed in a House. Acta Technica Napocensis - Applied Mathematics, Mechanics and Engineering, Vol. 65, Issue I, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1790>
3. Muresan, C., Ciupan, C., Pop, E., & **Ciupan, M.** (2021). Optimization of the geometric parameters of thermoformed parts. Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Special Issue I, presented at the QIEM-ICNcT 2021 Conference, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1745>
4. Bulgariu, C.-L., **Ciupan, M.**, Titu, A. M. (2021). Railway Transport Management in the Covid 19 Era and the Economic Social Impact of the Pandemic on the Railway Industry. Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 65, Special Issue I, presented at the QIEM-ICNcT 2021 Conference, <https://atna-mam.utcluj.ro/index.php/Acta/article/view/1732>
5. Bulgariu, C.-L., **Ciupan, M.**, Titu, A. M. (2021). Quality Management in Railway Transport - Traffic Capacity vs. Infrastructure Capacity. (QIEM-ICNcT 2021). Publicata in REVTN, <http://revtn.ro/index.php/revtn/article/view/345>

6. Cionca, I., **Ciupan, M.**, & Heres. V. (2020). Developing and Testing of Hemp Fiber and Ecological Matrix Composites. The XXII International Conference "Inventica 2020", ISSN: 1844-7880
7. Ciupan, E., **Ciupan, M.**, & Jucan, D.-C. (2018). Determining the Mechanical Properties of a New Composite Material Using Artificial Neural Networks, International Journal of Engineering Trends and Technology (IJETT), ISSN: 2231 – 5381, Vol. 66, No. 2, December 2018, pp. 103-108, <http://ijettjournal.org/archive/ijett-v66p218>
8. **Ciupan, M.**, & Ciupan, E. (2018). New solution for waterjet cutting and milling machine, Proceedings of 2018 International Conference on Hydraulics and Pneumatics - HERVEX November 7-9, Băile Govora, Romania, pag. 38-44, <https://fluidas.ro/hervex/proceedings2018/38-44.pdf>
9. Ciupan, E., & **Ciupan, M.** (2014). Thermo-Mechanical Analysis of a Mountain Bike Disc Brake Rotor, International Conference on Production Research, Regional Conference Africa, Europe and The Middle East and 3rd International Conference on Quality and Innovation in Engineering and Management, July 1-5, 2014, Cluj-Napoca, Romania, pag. 88-92.

PROIECTE DE CERCETARE

1. Proiectul “Crearea unui centru de excelență în domeniul materialului compozit la TAPARO SA” (cod MySMIS: 121434):
 - membrii proiect: Taparo SA (coordonator), Univ. Gheorghe Asachi din Iasi (partener), Univ. Tehnică din Cluj-Napoca (partener);
 - angajat pe post de responsabil cu partea tehnică (coordonator tehnic) din partea Taparo SA (coordonator proiect).
2. Proiectul “Echipamente tehnologice pentru practica studenților în cadrul Atelierului mecanic al Universității Tehnice din Cluj-Napoca” (cod: CNFIS-FDI-2021-0249):
 - angajat ca expert proiectare.

Semnătură,
Dr. ing. dipl. Mihai CIUPAN

