

LISTA DE LUCRARI

1. Moga, R. Ghincu, T. Costea, D.-I. Țarcă, and O. Moldovan, "Some experiments regarding magnetron sputtering deposition with small capacity devices," presented at the Nonconventional Technologies Review 22(4), 2018.
2. D. I. Țarcă, L. Csokmai, O. Moldovan, R. Ghincu, and D. Potroviță, "Experimental data collection system for reading pressure levels in a vacuum environment," *IOP Conf. Ser.: Mater. Sci. Eng.*, vol. 568, no. 1, p. 012078, Aug. 2019, doi: [10.1088/1757-899X/568/1/012078](https://doi.org/10.1088/1757-899X/568/1/012078).
3. R. Ghincu, A. Moldovan, D.-I. Țarcă, O. Moldovan, and T. Costea, "Installing a high capacity sputtering system at University of Oradea.," presented at the Electrical Engineering and mechatronics conference EEMC'19, Debrecen, 2019.
4. D. I. Țarcă, T. Costea, and I. Moga, "Custom vacuum load-lock for the sputtering vacuum chamber, loading/unloading and locking automatisation mechanisms," *IOP Conf. Ser.: Mater. Sci. Eng.*, vol. 898, no. 1, p. 012046, Jul. 2020, doi: [10.1088/1757-899X/898/1/012046](https://doi.org/10.1088/1757-899X/898/1/012046).
5. D. I. Țarcă, R. V. Ghincu, and D. Crăciun, "Designing a vacuum chamber and substrate positioning system for magnetron sputtering deposition applications," *IOP Conf. Ser.: Mater. Sci. Eng.*, vol. 1169, no. 1, p. 012023, Aug. 2021, doi: [10.1088/1757-899X/1169/1/012023](https://doi.org/10.1088/1757-899X/1169/1/012023).
6. R. V. Ghincu, D. I. Țarcă, and O. A. Moldovan, "Development of a data acquisition system for a vacuum thin film deposition equipment," *IOP Conf. Ser.: Mater. Sci. Eng.*, vol. 1169, no. 1, p. 012024, Aug. 2021, doi: [10.1088/1757-899X/1169/1/012024](https://doi.org/10.1088/1757-899X/1169/1/012024).
7. D.-I. Țarcă, D. Crăciun, R. V. Ghincu, K. O. Low, and I. C. Țarcă, "Pneumatic Actioned Mechanism for Substrate Loading, Clamping and Unloading System in a Vacuum Sputtering Equipment," in *2023 17th International Conference on Engineering of Modern Electric Systems (EMES)*, Oradea, Romania: IEEE, Jun. 2023, pp. 1–4. doi: [10.1109/EMES58375.2023.10171770](https://doi.org/10.1109/EMES58375.2023.10171770).
8. R. V. Ghincu, D.-I. Țarcă, F. S. Blaga, and T. Vesselenyi, "Proposal For A Vacuum Thermal Evaporation Deposition Monitoring System Using Fuzzy Models And AI Elements," in *2023 17th International Conference on Engineering of Modern Electric Systems (EMES)*, Oradea, Romania: IEEE, Jun. 2023, pp. 1–4. doi: [10.1109/EMES58375.2023.10171722](https://doi.org/10.1109/EMES58375.2023.10171722).
9. D.-C. Noje, O.-G. Moldovan, D.-I. Țarcă, and R.-C. Țarcă, "Image Processing Using Shepard Local Approximation Operators Defined in Riesz MV-Algebras," in *2024 10th International Conference on Mechatronics and Robotics Engineering (ICMRE)*, Milan, Italy: IEEE, Feb. 2024, pp. 260–264. doi: [10.1109/ICMRE60776.2024.10532201](https://doi.org/10.1109/ICMRE60776.2024.10532201).
10. T. A. Avram, D.-I. Țarcă, D.-C. Noje, T. Vesselenyi, and R.-C. Țarcă, "Surface roughness determination with the help of Artificial Neural Networks as enabler of metal machining process controlling system," *ICCCC*, vol. 10, Octombrie 2024.

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09.01.2025

