

Lista completă a lucrărilor științifice publicate

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I. Articole în reviste indexate Web of Science

1. **G. Bălăsoiu**, C. Munteniță, V. T. Amortila, and L. Titire, “Optimisation of Clutch Disc Friction Material Using a Multi-Layer Perceptron Artificial Neural Network,” *Polymers*, vol. 16, no. 24, art. 3588, 2024, doi: 10.3390/polym16243588. (WoS – SCIE; indexată și Scopus)

II. Articole în reviste și conferințe internaționale indexate Scopus

1. **G. Bălăsoiu**, M. Buciumeanu, S. Ciortan, and V. Amortila, “A Statistical Analysis of the Influence of the Brake Pads Air Pollution on the Lung Diseases of Romanian Population,” in *Proc. 20th Int. Multidisciplinary Scientific GeoConf. (SGEM)*, vol. 20, no. 4.2, pp. 99–106, 2020, doi: 10.5593/sgem2020v/4.2/s06.12.
2. V. Amortila, E. Mereuta, S. Veresiu, M. Rus, and **G. Bălăsoiu**, “The Prediction and Optimization of Alternative Fuel Consumption in Vehicles Using Artificial Neural Networks with the Aim of Reducing Atmospheric Pollution,” in *Proc. Int. Multidisciplinary Scientific GeoConf. (SGEM)*, vol. 2024, no. 4.1, pp. 459–466, 2024.
3. M. Gingărașu, E. Mereuta, V. Amortila, and **G. Bălăsoiu**, “Solutions for Reducing the Air Pollution Generated by Vehicle,” in *Proc. Int. Multidisciplinary Scientific GeoConf. (SGEM)*, vol. 2024, no. 4.1, pp. 443–450, 2024.
4. M. Rus, S. Veresiu, E. Mereuta, V. Amortila, and **G. Bălăsoiu**, “Evaluating the Impact of Automobile Pollution on the Health of the Romanian Population Through Statistical Methods,” in *Proc. Int. Multidisciplinary Scientific GeoConf. (SGEM)*, vol. 2024, no. 4.1, pp. 395–402, 2024.
5. C. Munteniță, V. Amorțilă, L. Titire, and **G. Bălăsoiu**, “Analysis of Filler Concentration Influence on Epoxy Based Composite Properties Based on Neural Network Model,” in *Proc. 2024 IEEE Conf. Advanced Topics on Measurement and Simulation (ATOMS)*, pp. 267–270, 2024.
6. V. Amorțilă, **G. Bălăsoiu**, C. Munteniță, and L. Titire, “Optimization of Tribological Behavior for an Epoxy-Clay Composite with Artificial Neural Networks,” in *Proc. 2024 IEEE Conf. Advanced Topics on Measurement and Simulation (ATOMS)*, pp. 271–274, 2024.

III. Articole în reviste de specialitate și conferințe internaționale neindexate

1. V. Amorțilă and **G. Bălăsoiu**, “Solutions for Improving Urban Road Traffic,” *Annals of „Dunărea de Jos” Univ. of Galați, Fasc. V, Technologies in Machine Building*, vol. 37, pp. 57–61, 2019. http://www.cmrs.ugal.ro/TMB/2019/L_10_Amortila.pdf
2. **G. Bălăsoiu** and V. Amorțilă, “Method of Statistical Control of a Production Process,” *Annals of „Dunărea de Jos” Univ. of Galați, Fasc. V, Technologies in Machine Building*, vol. 37, pp. 45–50, 2019. http://www.cmrs.ugal.ro/TMB/2019/L_08_Balasoiu.pdf
3. V. Amortila, E. Mereuta, **G. Bălăsoiu**, and S. Veresiu, “Use of Statistical Correlation Analysis in the Study of Road Accidents,” *Journal of Danubian Studies and Research*, vol. 11, no. 1, pp. 143–151, 2021. <https://dj.univ-danubius.ro/index.php/JDSR/article/view/1281/1482>

4. V. Amortila, E. Mereuta, **G. Bălăsoiu**, C. Humelnicu, and M. Gingarasu, “Modeling and Simulation of a Simple Linear Suspension with Simcenter Amesim Software,” *EuroEconomica*, vol. 40, no. 2, pp. 180–186, 2021. <https://dj.univ-danubius.ro/index.php/EE/article/view/1454/1726>
5. V. Amortila, E. Mereuta, **G. Bălăsoiu**, M. Rus, and S. Veresiu, “Analysis of Failures Admitted and Not Admitted by Types of Cars as Part of Authorized Periodic Technical Inspections,” *EuroEconomica*, vol. 40, no. 2, pp. 171–179, 2021. <https://dj.univ-danubius.ro/index.php/EE/article/view/1453/1725>
6. V. Amorțilă, **G. Bălăsoiu**, S. Vereșiu, and M. Gingărașu, “Experimental Analysis of the Thermal Behavior of Brake Discs for Different Friction Couples,” *Mechanical Testing and Diagnosis*, vol. 11, no. 4, pp. 20–23, 2021.
7. V.-T. Amortila, E. Mereuta, **G. Bălăsoiu**, C. Humelnicu, and M. Gingarasu, “Analysis of the Use of Ventilated and Non-Ventilated Brake Discs Using the Arduino Uno R3 Module,” in *Proc. Int. Conf. on Contemporary Scientific and Technological Aspects towards an Entrepreneurial Approach*, 2022.
8. V.-T. Amortila, E. Mereuta, **G. Bălăsoiu**, and M. Novetschi, “Visual Perception Analysis Using the Kinect Sensor,” in *Proc. Int. Conf. on Contemporary Scientific and Technological Aspects towards an Entrepreneurial Approach*, 2022.
9. **G. Bălăsoiu**, V. Amortila, D. Boazu, and M. Buciumeanu, “Comparative Evaluation of Tribological Properties of Brake Pad Materials,” *Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering*, vol. 67, no. 4s, 2024.
10. **G. Bălăsoiu**, V. T. Amorțilă, M. Rus, and M. Gingărașu, “Recent Advances and Environmental Considerations in Brake Disc Material Development,” *Annals of „Dunărea de Jos” Univ. of Galați, Fasc. V, Technologies in Machine Building*, no. 43, pp. 19–24, 2025.

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Semnătura: _____