

LISTA DE LUCRĂRI

❖ Articole publicate în reviste cu factor de impact (indexate WoS)

1. Buidin, T.I.C.; **Mariașiu, F.** (2024) Effects of using fireproof thermal management systems on the lifespan of battery cells. Case Studies in Thermal Engineering, 57, 104347. <https://doi.org/10.1016/j.csite.2024.104347>, (WoS IF = 6.8, Q1)
2. **Mariașiu, F.**, and E. A. Kelemen. (2023) Analysis of the Energy Efficiency of a Hybrid Energy Storage System for an Electric Vehicle, Batteries. 9(8): 419. <https://doi.org/10.3390/batteries9080419> (WoS IF = 4.0, Q2)
3. **Mariașiu F**, Chereches IA, Raboca H. (2023) Statistical Analysis of the Interdependence between the Technical and Functional Parameters of Electric Vehicles in the European Market. Energies. 2023; 16(7):2974 (WoS IF = 3.252, Q3)
4. Szabo I, Scurtu LI, Raboca H, **Mariașiu F.** (2023) Topographical Optimization of a Battery Module Case That Equips an Electric Vehicle. Batteries. 2023; 9(2):77. <https://doi.org/10.3390/batteries9020077>, (WoS IF = 5.938, Q2)
5. Buidin, T.I.C.; **Mariașiu, F.** (2022) Parametric Evaluation of Thermal Behavior for Different Li-Ion Battery Chemistries. Batteries, 8, 291. <https://doi.org/10.3390/batteries8120291>, (WoS IF = 5.938, Q2)
6. N. V. Burnete, **F. Mariașiu**, C. Depcik, I. Barabas, D. Moldovanu (2022) Review of thermoelectric generation for internal combustion engine waste heat recovery, Progress in Energy and Combustion Science, 91, 101009, <https://doi.org/10.1016/j.pecs.2022.101009>, (**WoS IF = 35.339, Q1 TOP**)
7. Sechel, I.C.; **Mariașiu, F.** Efficiency of Governmental Policy and Programs to Stimulate the Use of Low-Emission and Electric Vehicles: The Case of Romania. Sustainability 2022, 14, 45. <https://doi.org/10.3390/su14010045> (WoS IF=3.251, Q2)
8. Buidin T.I.C., **Mariașiu F.** (2021) Battery Thermal Management Systems: Current Status and Design Approach of Cooling Technologies, Energies, 14(16), 4879 (WoS IF=3.004, Q3)
9. Buidin T.I.C., **Mariașiu F.** (2021) Modeling Approach of an Air-Based Battery Thermal Management System for an Electric Vehicle, Applied Sciences, 11(15), 7089 (WoS IF=2.679)
10. Burnete N.V., **Mariașiu F.**, Moldovanu D., Depcik C. (2021) Simulink model of a thermoelectric generator for vehicle waste heat recovery, Applied Sciences, 11 (3), 1340, (WoS IF=2.474, Q2)
11. Varga, B.O., **Mariașiu, F.**, Miclea C.D., Szabo I., A.A.Sirca, N. Vlad (2020) Direct and Indirect Environmental Aspects of an Electric Bus Fleet Under Service, Energies, 13(2), 336; <https://doi.org/10.3390/en13020336> (WoS IF=2.707, Q3)
12. Varga, B.O., Sagoian, A., **Mariașiu, F.** (2019) Prediction of Electric Vehicle Range: A Comprehensive Review of Current Issues and Challenges, Energies, 12(5), 946; <https://doi.org/10.3390/en12050946> (WoS IF=2.676, Q3)
13. Motogna M., Moldovanu D., **Mariașiu, F.** (2018) Numerical Analysis Of Fuel Flow Pattern At Nozzle Exit Considering Different Fuels And Functional Conditions Of A Diesel Engine, Transactions of FAMENA, 42(4), 63-74, DOI:10.21278/TOF.42406 (WoS IF=0.797, Q3).
14. Moldovanu, D., **Mariașiu, F.** (2018) Studies And Research Regarding Optimal Cargo Load Of A Transport Van Using Carmaker Software, Romanian Journal of Automotive Engineering, 24(4), 135-146 (WoS IF=0, Q3)
15. Varga, B., **Mariașiu, F.** (2018) Indirect environment-related effects of electric car vehicles use, Environmental Engineering and Management Journal, 17(7), 1591-1597 (WoS IF=1.334, Q3).
16. Moldovanu D., **Mariașiu F.**, Bagameri N. (2018) Influence of swirl and tumble motion inside the combustion chamber of a compression ignited engine on vertices formation, MATEC Web of Conferences 184: 01022, DOI: 10.1051/matecconf/201818401022 (WoS ISI Proceedings)
17. Moldovanu D., **Mariașiu F.** (2018) Numerical analysis of the injection law influence on NOx emissions for a compression ignited engine, MATEC Web of Conferences 184: 01019, DOI: 10.1051/matecconf/201818401019 (WoS ISI Proceedings)
18. Moldovanu D., **Mariașiu F.** (2017) Influences Of Chemical Characteristics And Nano-Additive Participation On Raw Vegetable Oils' Tribological Properties, Journal of the Brazilian Society of Mechanical Sciences and Engineering, 39(7), 2713-2720, (WoS IF=1.235, Q3).
19. **Mariașiu F.**, Burnete N.V., Moldovanu D., Varga B.O., Iclodean C., Kocsis L. (2015) Effects Of Bioethanol Ultrasonic Generated Aerosols Application On Diesel Engine Performances, Thermal Science, 19(5), 1931-1941, 2015 (WoS IF=0.939, Q2).
20. Manzetti S., **Mariașiu F.** (2015) Electric vehicle battery technologies: From present state to future systems, Renewable and Sustainable Energy Reviews 51, 1004–1012, 2015 (WoS IF=6.798, Q1).
21. **Mariașiu, F.** (2015) Numerical Investigation Of The Effects Of Biofuel Characteristics On The Injector Nozzle Erosion Process, Tribology & Lubrication Technology, 71(2), 44-53, 2015 (WoS IF=0.082, Q3) – republicare cu acordul STLE org la cererea jurnalului (Editor's monthly choice article).
22. **Mariașiu, F.** (2014) Attempts to reduce biodiesel blends NOx pollutant emissions by ultrasonic conditioning, Transport, 29:1, 43-49, 2014, (WoS IF=0.553, Q3).
23. **Mariașiu, F.** (2013) Possibilities for reducing tractor engine friction losses at cold start using an ultrasonic irradiation technique, Turk. J. Agric. For., 37, 623-631, 2013, (WoS IF=0.914, Q2).
24. **Mariașiu, F.** (2013) Numerical Investigation Of The Effects Of Biofuel Characteristics On The Injector Nozzle Erosion Process, Tribology Transactions, 56(2), 161-168, 2013 (WoS IF=0.914, Q2)

25. Deac T., Ros, V., **Marișiu, F.**, Savan, E., Borza, Gh. (2011) Analysis of energy efficiency for sawdust briquetting process, în cadrul celui de-al 39-lea Simpozion Internațional „Actual task on agricultural engineering”, 22-25 feb., 2011, Opatia, Croatia, pg.189-200, ISSN 1333-2651 (WoS ISI Proceedings)
26. **Marișiu, F.**, Varga, B. (2010) Possibilities to improve the cold start process of tractors engines fuelled with biodiesel, Journal of Food, Agriculture and Environment (JFAE), 8 (3&4), 1120-1122, 2010, (WoS IF= 0.425, Q3).
27. **Marișiu, F.**, Burnete, N. (2010) The Influence of External Energy Conditioning on Biofuels Physical Properties, în cadrul celui de-al 38-lea Simpozion Internațional „Actual task on agricultural engineering”, 22-26 feb., 2010, Opatija, Croatia, pg.383-390, ISSN 1333-2651 (WoS ISI Proceedings).
28. **Marișiu, F.**, Varga, B. (2009) Simulation of the combustion chamber geometric shape with the liquid lenght phase penetration of biofuel jet spray, în cadrul celui de-al 37-lea Simpozion Internațional „Actual task on agricultural engineering”, 10-13 feb., 2009, Opatija, Croatia,pg.51-56, ISSN 1333-2651 (WoS ISI Proceedings)
29. **Marișiu, F.**, Burnete, N. (2008) The study concerning the biofuels and elastomers sealing elements of the oil filter compatibility, în cadrul celui de-al 36-lea Simpozion Internațional „Actual task on agricultural engineering”, 11-15 feb., 2008, Opatija, Croatia, ISSN 1333-2651 (WoS ISI Proceedings).
30. **Marișiu, F.**, Varga, B., Baldean, D. (2008) Considerations about the reliability's study of the agricultural systems using Bayes theorems, în cadrul celui de-al 36-lea Simpozion Internațional „Actual Task on Agricultural Engineering”, 11-15 feb., 2008, Opatija, Croatia, ISSN 1333-2651 (WoS ISI Proceedings).

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1. H. Cărușan, B.O. Varga, D. Moldovanu., **F. Marișiu**, G. Prunean, I-T. Oarga (2023) "Energy Efficiency Assesment of Sustainable Public Transport Solutions: a Comparative Analysis Fuel Cell vs Battery in Real Life Scenarios," In Proceedings of 58th International Universities Power Engineering Conference (UPEC), Dublin, Ireland, 2023, pp. 1-6, doi: 10.1109/UPEC57427.2023.10294682.
2. D. Moldovanu, **F. Marișiu**, B. O. Varga, A. I. Borzan, H. Cărușan and D. D. Micu, (2023) Analysis of the modes of operation of an electric vehicle on energy consumption, *10th International Conference on Modern Power Systems (MPS)*, Cluj-Napoca, Romania, 2023, pp. 1-5, doi: 10.1109/MPS58874.2023.10187463.
3. A.A. Sirca, I. Szabo, **F. Marișiu**, D. Moldovanu and H. Cărușan (2022) Influence of drone's nacelle conicity on the air flow dynamics, IOP Conf. Ser.: Mater. Sci. Eng. 1256 012015, <https://doi.org/10.1088/1757-899X/1256/1/012015>.
4. I Szabo, A A Sirca, L Scurtu, L Kocsis, I N Hanches and **F. Marișiu** (2022) Comparative study of Li-ion 21700 cylindrical cell under mechanical deformation, IOP Conf. Ser.: Mater. Sci. Eng. 1256 012023, <https://doi.org/10.1088/1757-899X/1256/1/012023>.
5. I Szabo, A A Sirca, L Scurtu, L Kocsis, I N Hanches and **F. Marișiu** (2022) Comparative study of Li-ion 18650 cylindrical cell under pinch indentation, IOP Conf. Ser.: Mater. Sci. Eng. 1256 012022, <https://doi.org/10.1088/1757-899X/1256/1/012022>.
6. NV Burnete, **F. Marișiu**, D Moldovanu, N Burnete, D Capata, B Jurchis (2021) Parametric study of air-cooled TEG heat exchanger design for waste heat recovery in heavy-duty vehicle, IOP Conf. Ser.: Mater. Sci. Eng. 1169 012027, <https://doi.org/10.1088/1757-899X/1169/1/012027> (Scopus)
7. AA Sirca, **F. Marișiu**, S Morariu, N Vlad (2020) Numerical analysis of the influence of the number of blades on the dynamic performance of a drone, IOP Conference Series: Materials Science and Engineering 898 (1), 012001 (Scopus)
8. AA Sirca, **F. Marișiu**, BO Varga, S Morariu (2020) Numerical analysis of the influence of the relative position of the drone's rotor inside the nacelle on the airflow dynamics, IOP Conference Series: Materials Science and Engineering 898 (1), 012019 (Scopus)
9. I Szabo, L Kocsis, **F. Marișiu** (2020) Research on the behaviour of a LiFePo4 prismatic cell subjected to mechanical stress, IOP Conference Series: Materials Science and Engineering 898 (1), 012021 (Scopus)
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11. **Marișiu F.**, Borzan A, Motogna MS, Szabo I. Performance Analysis of Electric Vehicles Available in the Current Automotive Market. The Annals of “Dunarea de Jos” University of Galati. Fascicle IX, Metallurgy and Materials Science, Vol 42 No 1 (2019), 25-30, <https://doi.org/10.35219/mms.2019.1.04>.
12. Scurtu, L., Varga, B.O., **Marișiu, F.**, Buidin, T., Borzan, A., Moldovanu, D (2019) Numerical analysis of the SOC factor variations' influence on the autonomy of an electric vehicle, IOP Conference Series: Materials Science and Engineering, Volume 568, Issue 1, 17 September 2019, Article number 012046, Annual International Session of Scientific Papers - IMT Oradea 2019; Oradea, Felix SPA; Romania; 30 May 2019 through 31 May 2019; Code 152405 (Scopus)
13. Scurtu, L., Szabo, I., **Marișiu, F.**, Moldovanu, D., Mihali, L., Jurco, A. (2019) Numerical analysis of the influence of mechanical stress on the battery pack's housing of an electric vehicle, IOP Conference Series: Materials Science and Engineering, Volume 568, Issue 1, 17 September 2019, Article number 012054, Annual International Session of Scientific Papers - IMT Oradea 2019; Oradea, Felix SPA; Romania; 30 May 2019 through 31 May 2019; Code 152405 (Scopus)
14. Motogna, M.S., Moldovanu, D., **Marișiu, F.** (2019) Numerical study on the effects of using different concentrations of FAME blends on the spray structure of the injection process, IOP Conference Series: Materials Science and Engineering, Volume 568, Issue 1, 17 September 2019, Article number 012047, Annual International Session of Scientific Papers - IMT Oradea 2019; Oradea, Felix SPA; Romania; 30 May 2019 through 31 May 2019; Code 152405 (Scopus)

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16. D. Moldovanu, B.O. Varga, **F. Mariasiu**, C. Iclodean, N.V. Burnete, L. Mihali, S. Ola (2018) Van Dynamics Performance Analysis for Different Battery Pack Placement, Proceedings of International Congress AMMA 2018 (AMMA 2018_HEV11), pp.338-345, ISBN 978-3-319-94408-1, (Springerlink).
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18. C. Iclodean, V. Solcan, M. Craciunescu, **F. Mariasiu**, B. Jurchis (2018) Control of Injection Process Using iRate Injection Law on Single Cylinder Diesel Engine's by Numerical Simulation, Proceedings of International Congress AMMA 2018 (AMMA 2018_AES26), pp 40-51, ISBN 978-3-319-94408-1, (Springerlink).
19. **F. Mariasiu**, H.M. Raboca (2017) Assessment of extracurricular activities' effects on automotive engineering education: A cross-national study, International Journal of Mechanical Engineering Education, 45(2), 120-141, DOI: 10.1177/0306419016674144, (Scopus).
20. Iclodean C., **Mariasiu F.** (2014) Possibility to Increase Biofuels Energy Efficiency used for Compression Ignition Engines Fueling, TEM Journal, 3(1), 36-41 (indexata BDI: EBSCO, Copernicus)
21. **Mariasiu, F.** (2013) Consumers' Attitudes Related to Biofuel Use in Transportation, International Review of Management and Marketing, 3(1), 1-9 (indexata BDI: EBSCO, ProQuest, RePEc, IDEAS, CABELL, Scirus, DOAJ, Uilrich's, Copernicus).
22. **Mariasiu, F.** (2012) Energy Sources Management and Future Automotive Technologies: Environmental Impact, International Journal of Energy Economics and Policy, 2(4), 342-347 (indexata BDI: Scopus, EBSCO, ProQuest, RePEc, IDEAS, CABELL, Scirus, DOAJ, Uilrich's, Copernicus).
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27. **Mariasiu, F.**, Varga, B., Deac, T., Cordos, N. (2011) The influences of ultrasonic irradiation process on bioethanol-gasoline blended fuels on SI engine functional parameters, Research Journal of Agricultural Science, 43(1), 334-339 (indexata BDI: CABI, Uilrich's, Copernicus, CNCSIS B+).
28. **Mariașiu, F.**, Burnete, N. (2010) External Energy Conditioning on Biofuels Physically Parameters, Research Journal of Agricultural Science, 42(1), 623-629, ISSN 2066-1843 (indexata BDI: CABI, Uilrich's, Copernicus, CNCSIS B+).
29. **Mariașiu, F.**, Varga, B. (2010) Improvement the Cold Start Process of CI Engines Fueled with Biodiesel, Research Journal of Agricultural Science, 42(1), 630-635, ISSN 2066-1843 (indexata BDI: CABI, Uilrich's, Copernicus, CNCSIS B+).
30. **Mariașiu, F.**, Socea, D. (2009) The Determination Of Soil Compaction Level Due To Agricultural Machinery's Traffic, Journal of Scientific Society of Power Machines -Tractors and Power Machines, 14(1), 70-75, Novi Sad, Serbia, ISSN 0354-9496 (indexata in SCindex).
31. **Mariașiu, F.**, Moldovanu, D. (2009) The Management Concept For Agricultural And Food Industry Machinery Design Using Systemic Indicators", Journal of Scientific Society of Power Machines -Tractors and Power Machines, 14(1), 93-98, Novi Sad, Serbia, ISSN 0354-9496 (indexata in SCindex).