

## LUCRĂRI PUBLICATE

| Nr. crt. | Lucrarea                                                                                                                                                                                                                                                                                                                                                                                         |
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| 1.       | Lăzăroiu Gheorghe, Mihăescu Lucian , <b>Stoica Dorel</b> , Năstasă (Băcăran) Florentina-Cătălina , The Transition to an Eco-Friendly City as a First Step Toward Climate Neutrality with Green Hydrogen, Technologies 2025, 13(3), 95; <a href="https://doi.org/10.3390/technologies13030095">https://doi.org/10.3390/technologies13030095</a> , WOS:001454188800001<br><b>Q1</b> , IF = 4.2     |
| 2.       | Cristian Valentin Strejoiu, Mohammed Gmal Osman, <b>Dorel Stoica</b> , Cornel Panait , Gheorghe Lăzăroiu, Study of Energy Distribution in a Photovoltaic Park in Tulcea County, Romania, Processes 2025, 13(2), 533; <a href="https://doi.org/10.3390/pr13020533">https://doi.org/10.3390/pr13020533</a> , <b>Q2</b> , IF = 2.8                                                                  |
| 3.       | <b>Stoica D.</b> , Mihăescu L. Lăzăroiu Gh., Lăzăroiu G.C., The Technical and Economic Aspects of Integrating Energy Sectors for Climate Neutrality, Sustainability 2024, 16(18), 8070; <a href="https://doi.org/10.3390/su16188070">https://doi.org/10.3390/su16188070</a> , WOS:001323047000001<br><b>Q2</b> , IF = 3.3                                                                        |
| 4.       | <b>Stoica D.</b> , Mihăescu L. Lăzăroiu Gh., Lăzăroiu G.C., Green Hydrogen, a Solution for Replacing Fossil Fuels to Reduce CO2 Emissions, Processes 2024, 12(8), 1651; <a href="https://doi.org/10.3390/pr12081651">https://doi.org/10.3390/pr12081651</a> , WOS:001306717600001<br><b>Q2</b> , IF = 2.8                                                                                        |
| 5.       | <b>Stoica D.</b> , Mihăescu L., Lăzăroiu Gh., Lăzăroiu G.C., The Storage Process of Electric Energy Produced from Renewable Sources from Hydrogen to Domestic Hot Water Heating, Processes 2024, 12(5), 1024; <a href="https://doi.org/10.3390/pr12051024">https://doi.org/10.3390/pr12051024</a> , WOS:001231283900001<br><b>Q2</b> , IF = 2.8                                                  |
| 6.       | Lazaroiu Gh., Mihaescu L., Grigoriu R.M., Negreanu P.G., <b>Stoica D.</b> , Possibilities of Climate Control of Poultry Complexes through Co-Combustion of Poultry Waste–Solid Biomass for Agriculture in Romania, Agriculture 2024, 14(3), 428; <a href="https://doi.org/10.3390/agriculture14030428">https://doi.org/10.3390/agriculture14030428</a> WOS:001191711300001<br><b>Q1</b> , IF=3.3 |
| 7.       | <b>Stoica D</b> , Mohammed G.O., Strejoiu C.V., Lazaroiu Gh., Exploring Optimal Charging Strategies for Off-Grid Solar Photovoltaic Systems: A Comparative Study on Battery Storage Techniques, Batteries 2023, 9(9), 470; <a href="https://doi.org/10.3390/batteries9090470">https://doi.org/10.3390/batteries9090470</a> , WOS:001078926700001<br><b>Q2</b> , IF = 4.6 (anul 2024)             |
| 8.       | Mohammed Gmal Osman, Gheorghe Lazaroiu, Shadia Hamad, Hazmoune Messaoud, Debbache Mohamed, <b>Dorel Stoica</b> , Analysis of Photovoltaic Systems with Battery Storage, Electric Vehicle Charging, and Smart Energy Management, Sustainability 2025, 17(9), 3887; <a href="https://doi.org/10.3390/su17093887">https://doi.org/10.3390/su17093887</a> <b>Q2</b> , IF = 3.3                       |
| 9.       | <b>STOICA D.</b> , STANCIU G., Influence the degree of sorting the separation process a conical sieve - Digest Journal of Nanomaterials and Biostructures Vol. 8, No. 2, April - June 2013, pp. 513 – 518, ISSN 1842 – 3582, WOS:000322737500003; <a href="http://chalcogen.ro/513_Stoica.pdf">http://chalcogen.ro/513_Stoica.pdf</a> ; WOS:000322737500003<br>FI= 1,123                         |

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| 10. | <b>Stoica D.</b> , Voicu Gh., Popa L., Constantin G.A., Tudor P., Assessment indices for the efficiency of the separation process on a sieve with conical separation surface , INMATEH – Agricultural Engineering, vol. 60, no.1 / 2020, pp 193-200, <a href="https://api.inmateh.eu/public/uploads/60-22-Stoica-Dorel2f5d1d3d-6a4b-427f-9008-ce5c85a06da6.pdf">https://api.inmateh.eu/public/uploads/60-22-Stoica-Dorel2f5d1d3d-6a4b-427f-9008-ce5c85a06da6.pdf</a> ,<br><b>WOS:000535690100022</b><br>IF = 0.6                                                                                                                                                                                         |
| 11. | Lazea M., Constantin G. A., <b>Stoica D.</b> , Voicu Gh., Fem structural analysis for wear parts supporting counterpressure plate from a municipal solid waste truck, Revista Română de Materiale / Romanian Journal of Materials 2020, 50 (2), 283 – 293 <a href="http://solacolu.chim.upb.ro/pg283-293.pdf">http://solacolu.chim.upb.ro/pg283-293.pdf</a><br><b>WOS:000538152900016</b><br>IF = 0.6                                                                                                                                                                                                                                                                                                    |
| 12. | <b>STOICA D.</b> , RUSĂNESCU C.O., Research On The Influence Of Vibration Frequencyon A Conical Sieve Suspended – Metalurgia International, vlo.XVIII (2013), nr.3, ISSN 1582 – 2214, pp 84-86, <a href="https://www.webofscience.com/wos/author/record/2636166">https://www.webofscience.com/wos/author/record/2636166</a> ,<br><b>WOS:000313930000020</b><br>IF =0.134                                                                                                                                                                                                                                                                                                                                 |
| 13. | <b>STOICA D.</b> , Some aspects of the drive with the masses unbalanced vibrating, Metalurgia International, volumul 18, nr 4, pp 59-62 ,<br><a href="https://www.webofscience.com/wos/author/record/2636166">https://www.webofscience.com/wos/author/record/2636166</a> ,<br><b>WOS:000315177400012</b><br>IF =0.134                                                                                                                                                                                                                                                                                                                                                                                    |
| 14. | ION G.C., <b>STOICA D.</b> , Aspects of the vibration levels of the air conditioning installations, Metalurgia International, nr.4, ISSN 1582 – 2214, pp 38-42, Bucuresti,<br><a href="https://www.webofscience.com/wos/author/record/2636166">https://www.webofscience.com/wos/author/record/2636166</a> ,<br><b>WOS:000315177400007</b><br>IF =0.134                                                                                                                                                                                                                                                                                                                                                   |
| 15. | ION G.C., <b>STOICA D.</b> , Experimental analysis of sources and noise levels at some air conditioning facilities, Metalurgia International, nr.4, ISSN 1582 – 2214, pp 32-37, Bucuresti,<br><a href="https://www.webofscience.com/wos/author/record/2636166">https://www.webofscience.com/wos/author/record/2636166</a> ,<br><b>WOS:000315177400006</b><br>IF =0.134                                                                                                                                                                                                                                                                                                                                   |
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| 17. | <b>Stoica D.</b> , Voicu Gh., Carp Ciocardia D., Constantin G.A., Analysis of separation curves for a conical sieve with a vertical shaft and oscillation movement - Proceedings of the 42nd International Symposium on Agricultural Engineering, Actual Tasks on Agricultural Engineering, Opatija, Croatia, 25-28 February, 2014, pp 263-272,<br><a href="https://www.researchgate.net/publication/292869016_Analysis_of_separation_curves_for_a_conical_sieve_with_a_vertical_shaft_and_oscillation_movement">https://www.researchgate.net/publication/292869016_Analysis_of_separation_curves_for_a_conical_sieve_with_a_vertical_shaft_and_oscillation_movement</a> ,<br><b>WOS:000340762800025</b> |
| 18. | <b>Stoica D.</b> , Duțu I.C., Voicu Gh., Duțu M.F., <i>Influence of the oscillation, frequency on the separation process at the conical sieves</i> - 46. Symposium "Actual Tasks on Agricultural Engineering", Opatija, Croatia, 2018, pp 149- 155; <a href="https://www.cabidigitallibrary.org/doi/full/10.5555/20183183913">https://www.cabidigitallibrary.org/doi/full/10.5555/20183183913</a> ,<br><b>WOS:000506355900014</b>                                                                                                                                                                                                                                                                        |

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| 19. | <b>STOICA D.</b> , VOICU GH., MOISE V., CONSTANTIN G.A., CARP CIOCARDIA D., <i>Kinematic-structural analysis of actuating mechanism of a conical sieve with oscillating movement.</i> – Proceedings of the 43rd International Symposium on Agricultural Engineering, Actual Tasks on Agricultural Engineering, Opatija, Croatia, 24-27 February 2015, pp. 525-535; <a href="https://atae.agr.hr/49th_ATAE_proceedings.pdf">https://atae.agr.hr/49th_ATAE_proceedings.pdf</a><br><b>WOS:000373450700047</b>                                                                                                                                                           |
| 20. | <b>STOICA D.</b> , VOICU GH., CONSTANTIN G.A., C Carp-Ciocardia, MOISE V., Kinematic study of a vibrating conical sieve for separating impurities from seed of agricultural crops- Proceedings of the 41 International Symposium on Agricultural Engineering – Actual Tasks on Agricultural Engineering, Opatija, Croatia 19-22. february 2013, pp. 290 – pp 300, <a href="https://atae.agr.hr/proceedings.htm">https://atae.agr.hr/proceedings.htm</a><br><b>WOS:000324234600029</b>                                                                                                                                                                                |
| 21. | Lucian Mihăescu; Ionel Pișă; Gabriel P. Negreanu; <b>Dorel Stoica</b> ; Gheorghe Lăzăroiu; Iulia Simion, Vegetable biomass – source of green hydrogen production through gasification, 2024 9th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE), Ruse, Bulgaria, 2024, pp. 1-6, <a href="https://ieeexplore.ieee.org/document/10600631">https://ieeexplore.ieee.org/document/10600631</a> , DOI: 10.1109/EEAE60309.2024.10600631<br><b>WOS:001298137300136</b>                                                                                                                                                                    |
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| 25. | VOICU GH.,CONSTANTIN G.A., PLOȘCEANU B., ȘTEFAN E.M., VOICU P., <b>STOICA D.</b> , Vibratory movement analysis of plansifters from milling plants.– Proceedings of the 43rd International Symposium on Agricultural Engineering, Actual Tasks on Agricultural Engineering, Opatija, Croatia, 24-27 February 2015, pp. 395-404.<br><a href="http://atae.agr.hr/Zbornik_2015.pdf">http://atae.agr.hr/Zbornik_2015.pdf</a><br><b>WOS:000373450700035</b>                                                                                                                                                                                                                |
| 26. | Strejoiu Cristian-Valentin; Osman Mohammed Gmal; Lazaroiu Gheorghe; <b>Stoica Dorel</b> ; Panait Cornel, Efficiency Evaluation and Performance Analysis of a Photovoltaic Park Connected to a 20 kV Distribution Network in Galati County, Romania, 2024 9th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE) , DOI: 10.1109/EEAE60309.2024.10600539<br><b>WOS:001298137300046</b>                                                                                                                                                                                                                                                 |
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## CĂRȚI ȘI CAPITOLE DE CĂRȚI PUBLICATE

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**BREVETE ȘI INVENȚII INDEXATE**

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