

## ANEXA 8. Lucrări științifice in reviste indexate BDI

Nr. Crt.	TITLUL	REVISTA	AUTORII
<b>Lucrari publicate in reviste din baze de date recunoscute</b>			
1.	Considerations regarding the use of infrared thermography in the maintenance of hydraulic drive installations	Hidraulica Magazine, nr. 1, pp. 27-33, ISSN 1453 – 7303, 2025	Teodor Costinel Popescu, Alina Iolanda Popescu
2.	Performance analysis of a solar fruit dryer under controlled conditions	Hidraulica Magazine, nr. 1, pp. 40-49, ISSN 1453 – 7303, 2025	Ioan Pavel, Gabriela Matache, Gheorghe Sovaiala, Ana-Maria Carla Popescu
3.	Experimental evaluation of the dynamic response of pneumatic actuators depending on constructive and operational parameters	Hidraulica Magazine, nr. 1, pp. 101-110, ISSN 1453 – 7303, 2025	Gabriela Matache, Gheorghe Sovaiala, Radu-Iulian Radoi, Ana-Maria Carla Popescu
4.	Optimizing energy efficiency in closed-circuit hydrostatic transmissions: Advancing charge pump system control	Hidraulica Magazine, nr. 2, pp. 33-39, ISSN 1453 – 7303, 2025	Alexandru-Polifron Chirita, Radu-Iulian Radoi, Bogdan-Alexandru Tudor-Rotila, Stefan-Mihai Sefu
5.	Pneumatically driven generator for use with small-scale compressed air energy storage system	Hidraulica Magazine, nr. 3, pp. 119-124, ISSN 1453 – 7303 , 2025	Radu-Iulian Radoi, Bogdan-Alexandru Tudor-Rotila, Robert Blejan, Stefan-Mihai Sefu
6.	Solar drying in controlled environments: Sustainable solution for preserving vegetable products	Hidraulica Magazine, nr. 3, pp. 33-41, ISSN 1453 – 7303, 2025	Alina - Iolanda Popescu, Gheorghe Sovaiala, Gabriela Matache
7.	Designing an experimental pyrolizer model for the production of phosphorus-rich fertilizers from poultry manure	Annals of Faculty Engineering Hunedoara-International Journal of Engineering, nr. 2, pp. 93-100, ISSN-L 1584 – 2665, 2025	Vasilica Stefan, Lucretia Popa, Radu Ciuperca, Ana Zaica, Manuela Hemeziu, Mihaela Monica Dinu, Georgiana Plopeanu, Gabriela Matache
8.	Community-level physiological profiling of carbon substrate metabolism by microbial communities associated to sediments and water in karstic caves from Romania	STUDIA UNIVERSITATIS BABEȘ-BOLYAI BIOLOGIA, nr. 1, pp. 245-286, 10.24193/subbbiol.2025.1 .12, 2025	D. F. Panait, A. M. Panait, A. Cristea, E. A. Levei, O. T. Moldovan, H. L. Banciu
9.	Cellulose digestion in Leporidae: Enzymatic, genetic, and evolutionary aspects of a herbivorous strategy	Rabbit Genetics, nr. 1, pp. 20-24, 2248-3098, 2025	F.D. Bora, E. Kovacs, C. Coroian, T. Rusu

10.	Life on pause: Species capable of near-total, reversible suspension of physiological activity	ELBA Bioflux, nr. 1-9, 2067-6360, 2025	C. Balint, M. Popescu, E. Kovacs, C. Oroian, T.Rusu, I.V. Petrescu-Mag
11.	Telomeres and lifespan in animals: Limiting clock or correlated biomarker	HVM Bioflux, nr. 1, pp. 44-48, 2066-7663, 2025	B. Moldovan, A. Maxim, F.D. Bora, E. Kovacs, C. Coroian, I.V. Petrescu-Mag

<b>Lucrari publicate in proceedings-uri indexate in baze de date recunoscute</b>			
1.	Optimization of a solar agricultural product dryer for nighttime operation	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 17-24, ISSN 1454 – 8003, 2025	Alexandru-Polifron Chirita, Gheorghe Sovaiala, Ioan Pavel, Radu-Iulian Radoi, Alin-Nicolae Harabagiu
2.	Considerations on improving the efficiency of irrigation systems by using of electric pumps with adjustable rotational speed	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 37-47, ISSN 1454 – 8003, 2025	Teodor Costinel Popescu, Alina Iolanda Popescu, Radu Ciuperca
3.	Flow spike attenuation for electrohydraulic unit with mixed analog and digital control	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 68-76, ISSN 1454 – 8003, 2025	Marian Blejan, Robert Blejan, Carmen-Anca Safta, Alexandru Ionescu
4.	Design criteria and combustion analysis for a 10 kW TLUD reactor	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 99-107, ISSN 1454 – 8003, 2025	Gabriela Matache, Ioan Pavel, Andrei-Ionel Patrut, Elena Sorica
5.	Evaluation of biosynthetic blends based on polyol esters (POE) for environmentally friendly hydraulic applications	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 116-137, ISSN 1454 – 8003, 2025	Adriana-Mariana Bors, Stefan-Mihai Sefu, Lacrimioara Senila, Liliana Dumitrescu, Iulian Dumitru
6.	Drying theory and current trends in convective and solar drying of food products	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 143-150, ISSN 1454 – 8003, 2025	Ioan Pavel, Gabriela Matache, Gheorghe Sovaiala, Marinela Mateescu
7.	Considerations regarding hydraulic pumps wear and modern manufacturing and remanufacturing techniques	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 168-173, ISSN 1454 – 8003, 2025	Catalin Dumitrescu, Catalin Vitelaru, Liliana Dumitrescu, Stefan-Mihai Sefu, Radu-Iulian Radoi, Adriana-Mariana Bors, Magdalena Neacsu, Stefano-Andrea Mantovani
8.	Automated hydraulic system for on-line monitoring of treated wastewater quality	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 184-	Radu-Iulian Radoi, Alexandru-Polifron Chirita, Adriana-Mariana Bors, Ioana

### ANEXA 8b. Carti si capitole de carte

Nr. Crt.	TITLUL CARTII	EDITURA	AUTORII
1.	Optimizarea sistemelor hidraulice prin simulare numerica si experimentare	Editura PRIMUS, ISBN 978-606-707-638-7, 2025	Alexandru-Polifron Chirita, Radu-Iulian Radoi, Bogdan-Alexandru Tudor-Rotila, Liliana Dumitrescu, Ionas-Catalin Dumitrescu, Stefan-Mihai Sefu
2.	Reflections on the Illicit Trafficking of Cultural Property in the Recent History of Romania	Balkan Museum Network, vol. From Risk to Response: How the Heritage Sector Addresses Illicit Trafficking, nr. 2025, pp. 86-97, 978-9926-8502-3-4, 2025	Lucian Ratoiu
3.	Chapter 8 - The state-of-the-art and challenges in the field of organic and inorganic biocompatible coatings for implants in Advances in 3D and 4D Printing of Medical Robots and Devices	Advances in 3D and 4D Printing of Medical Robots and Devices, pp. 165-212, <a href="https://doi.org/10.1016/B978-0-443-24861-0.00009-5">https://doi.org/10.1016/B978-0-443-24861-0.00009-5</a> , 2025	M. Dinu, M.A. Surmeneva, M. Kozadaeva, C. Vitelaru, S. Abdulla, M.A. Morris, R.A. Surmenev, S.C. Padmanabhan, A. Vladescu (Dragomir)
4.	Analysis of Mineral Element Contents in Fungi in Fungi	Humana Press , vol. Methods and Protocols in Food Science , <a href="https://doi.org/10.1007/978-1-0716-4989-3">https://doi.org/10.1007/978-1-0716-4989-3</a> , 2025	M. Senila, E. Kovacs

### ANEXA 8c. Articole publicate in jurnale neindexate

Nr. Crt.	TITLUL	REVISTA	AUTORII
1.	Design and Implementation of a Near-Range Telescope for ACTRIS Lidar Systems Compliant with NF Performance Criteria	Proceedings ELC2025, 35_S1 , 2025	L. Belegante, D. Nicolae, G. Ciocan, C. Radu, J. Vasilescu, A. Nemuc, V. Nicolae, A. Tilea, A.M. Dandocsi
2.	Towards Accurate Aerosol Characterisation: Integrative Analysis Using Remote and In-situ	Proceedings ELC2025, 37_S5_o, 2025	J. Vasilescu, A. Nemuc, L.Belegante, R. Pirloaga, V. Nicolae, D. Nicolae, A.V.

	Technique		Dandocsi
3.	Quality Assurance of the Ground-based Aerosol High Power Lidar Measurements in the framework of the ATMO-ACCESS pilot for EarthCARE	2nd ESA-JAXA EarthCARE In-Orbit Validation Workshop, <a href="https://www.space4water.org/events/2nd-esa-jaxa-earthcare-orbit-validation-workshop#:~:text=Background,and%20terrestrial%20(thermal)%20radiation.,2025">https://www.space4water.org/events/2nd-esa-jaxa-earthcare-orbit-validation-workshop#:~:text=Background,and%20terrestrial%20(thermal)%20radiation.,2025</a>	Livio Belegante, Ancuta Gabriela Ciocan, Alexandru Marius Dandocsi, Doina Nicoleta Nicolae, Victor Andrei Nicolae
4.	Examining the characteristics of aerosols: a statistical analysis based on a decade of lidar and photometer observations at the Eastern border of ACTRIS	EGUsphere, <a href="https://doi.org/10.5194/egusphere-2025-2092">https://doi.org/10.5194/egusphere-2025-2092</a> , <a href="https://egusphere.copernicus.org/preprints/2025/egusphere-2025-2092/">https://egusphere.copernicus.org/preprints/2025/egusphere-2025-2092/</a> , 2025	Livio Belegante, Ancuta Gabriela Ciocan, Alexandru Marius Dandocsi, Anca Viorica Nemuc, Doina Nicoleta Nicolae, Victor Andrei Nicolae, Cristian Marian Radu, Camelia Talianu
5.	Validating ATLID Level 1B Nominal Track Products Against High-Resolution GroundBased Lidar Data	Proceedings ELC2025, 46_S2_p, 2025	G. Ciocan, S. Nicolae, D. Nicolae, L. Belegante, A.M. Dandocsi
6.	Characteristics of the smoke aerosol layers as observed by the EARLINET lidar stations in 2015-2023	Proceedings ELC2025, 23_S3_o, 2025	D.N. Nicolae , J. Vasilescu, C. Talianu, V. Nicolae, G. Ciocan, L. Belegante, Florica Toanca, Alexandru Dandocsi
7.	Machine Learning Techniques for the Estimation of Aerosol Particle Depolarization Ratio at 355 nm from ACTRIS-EARLINET	Proceedings ELC2025, 45_S2_o, 2025	A.V. Dandocsi, S. Nicolae, G. Ciocan, D. Nicolae
8.	A correlation study between ground-based lidar systems from the ACTRIS-EARLINET network and L2A data from the ATLID instrument	Proceedings ELC2025, 49_S2_o, 2025	S. Nicolae, G.Ciocan, D. Nicolae, A.M. Dandocsi, A.V.Dandocsi
9.	Assessing the influence of anthropogenic aerosols on climate by combining remote sensing data with atmospheric models	Proceedings ELC2025, 30_S5_o, 2025	C. Talianu, D.N. Nicolae, A.M. Dandocsi, V.A. Nicolae, A.V. Dandocsi