ANEXA 8. Lucrări ştiinţifice in reviste indexate BDI

Nr. Crt.	TITLUL	REVISTA	AUTORII
Lucrari publicate in reviste din baze de date recunoscute			
1.	System for velocity adjustment and control of a closed-circuit secondary adjustment hydrostatic transmission	Hidraulica Magazine, nr. 4, pp. 62-74, ISSN 1453 – 7303, 2022	**Alexandru-Polifron Chiriță, Radu Iulian Rădoi**, **Bogdan Marian Șerban**, **Ana-Maria Popescu, Andrei-Alexandru Benescu**
2.	Current aspects regarding the ecological impact of some wastewater recycling procedures and of zeolitic adsorption mechanisms	Ukrainian Journal of Ecology, vol. 12, nr. 8, pp. 31-39, 10.15421/2022_396, 2022	S.I. Ognean, **M. Senila**, V. Micle, D. Boloș, O. Tamas-Krumpe, F. Daria-Maria Ecaterina, L. Ognean
3.	Experimental demonstrations of extension of technical applications for pumping units equipped with miniboosters	Hidraulica Magazine, nr. 1, pp. 85-94, ISSN 1453 – 7303 , 2022	**Teodor Costinel Popescu, Alexandru-Polifron Chiriță**, **Alina Iolanda Popescu**, Andrei Vlad, Ionel Daniel Vochin, **Ana-Maria Carla Popescu**
4.	Use of pumping units equipped with oscillating hydraulic pressure intensifiers for displacement of cylinders with heavy loads over the entire stroke	Mining Machines , vol. 40, nr. 4, pp. 238-248, DOI: 10.32056/KOMAG2022.4. 6;e-ISSN 2719-3306, 2022	**Teodor-Costinel Popescu**, **Alexandru-Polifron Chiriță, Ana-Maria Carla Popescu**, **Alina-Iolanda Popescu**
5.	Control performance of an energy-efficient hydrotronic transmission	Hidraulica Magazine, nr. 2, pp. 7-14, ISSN 1453 – 7303 , 2022	**Alexandru-Polifron Chiriță, Radu Iulian Rădoi, Bogdan Alexandru Tudor, Ștefan-Mihai Șefu, Ana-Maria Popescu**
6.	Chassis with installed hydraulics for multifunctional vehicles intended for public utility works	Hidraulica Magazine, nr. 3, pp. 40-47, ISSN 1453 – 7303, 2022	**Ștefan Mihai Șefu, Radu Iulian Rădoi, Liliana Dumitrescu**, **Ioan Bălan**, Mihail Petrache, Elena Iordan
7.	Essential and non-essential elements in Chlorella and Spirulina food supplements	Agricultura, vol. 124, nr. 3-4, pp. 20-25, https://doi.org/10.15835/ agr.v124i3-4.14438 , 2022	**E. Neag**, **Z. Stupar**, **O. Cadar**, **I. Török**, **C. Roman**
8.	Degradation of Sulfamethoxazole by Double Cylindrical Dielectric Barrier Discharge System combined with Ti/C-N-TiO2 supported Nanocatalyst	Journal of Hazardous Materials Advances, vol. 5, pp. 1-16, 10.1016/j.hazadv.2022.10 0051, 2022	E.S.M. Mouele, T.Z.M. Myo, H.H. Kyaw, J.O. Tijani, **M. Dinu, A.C. Parau**, **I. Pana**, Y.E. Ouardi, J. Al-Sabahi, M. Al-Belushi, E. Sosnin, V. Tarasenko, C. Zhang, T. Shao, T.V. Iordache, S. Teodor, K. Laatikainen, **A.**

			Vladescu, M. Al-Abri, A. Sarbu, **M. Braic, V. Braic**, S. Dobretsov, L.F. Petrik
9.	Metals removal efficiency and phytotoxicity of mine drainage after Chlorella vulgaris treatment	Agricultura, vol. 124, nr. 3-4, pp. 37-43, https://doi.org/10.15835/agr.v124i3-4.14436 , 2022	**Z. Stupar**, **E. Neag, C. Roman**
10.	Hydraulic station for a railway track welding machine	Hidraulica Magazine, nr. 1, pp. 70-75, ISSN 1453 – 7303 , 2022	**Ioan Lepădatu, Liliana Dumitrescu, Ștefan Șefu**, Laurențiu Valentin Nicolae, Dănuț Florin Mateescu
11.	Hydraulic installation for the rotary crane of a railway track welding machine	Hidraulica Magazine, nr. 1, pp. 106-110, ISSN 1453 – 7303 , 2022	**Ioan Lepădatu, Ștefan Șefu, Ionela Mihaela Baciu**, Laurențiu Valentin Nicolae, Dănuț Florin Mateescu
12.	Maintenance of hydraulic components on multifunctional stands	Lecture Notes in Networks and Systems, vol. 534, pp. 255-264, DOI; 10.1007/978-3-031-15944-2_24, 2022	**Liliana Dumitrescu, Stefan Sefu, Ioan Lepadatu, Radu Radoi,** Laurențiu Nicolae
13.	Multipurpose stand in the field of hydrostatic drive	Acta Technica Corviniensis - Bulletin of Engineering, vol. 15, nr. 4, pp. 91-94, ISSN: 2067–3809, 2022	**R. Radoi, M. Blejan**, **L. Dumitrescu**, D. Bordeasu, C. Ghera
14.	The effect of zeolites on the transfer of heavy metals from soil to mint	Agricultura, vol. 124, nr. 3-4, pp. 32-36, https://doi.org/10.15835/agr.v124i3-4.14449 , 2022	**L. Dordai**
15.	Quantitative analysis of vitamins B1, B2, B3, B6 a by the UHPLC method in vegetables	Agricultura, vol. 124, nr. 3-4, pp. 15-19, https://doi.org/10.15835/agr.v124i3-4.14448 , 2022	**L. Dordai**
16.	Effect of Spirulina spp. extracts on tomato and onion seed germination	Agricultura, vol. 124, nr. 3-4, pp. 26-31, https://doi.org/10.15835/agr.v124i3-4.14437, 2022	**E. Neag, Z. Stupar**, **C. Roman**
17.	Mathematical modeling, laboratory testing and numerical simulation of a servo-pump as part of a closed circuit primary control hydrostatic transmission for multi-purpose trucks	Hidraulica Magazine, nr. 4, pp. 7-18, ISSN 1453 – 7303, 2022	**Alexandru-Polifron Chiriță, Cristian Pavel**

Lucrari publicate in proceedings-uri indexate in baze de date recunoscute			
1.	Experimental research on the influence of combustion air velocity on energy efficiency at	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 116-	**Ioan Pavel, Gabriela Matache, Gheorghe Șovăială, Kati Pavel**,

	TLUD generator	121, ISSN 1454 – 8003, 2022	Dragoș Anghelache
2.	Elimination of disturbances due to changes in air flow in a wind turbine with hydrostatic transmission	IOP Conference Series: Materials Science and Engineering, vol. 1262, pp. 12079-12079, doi:10.1088/1757-899X/1262/1/012079, 2022	**C. Dumitrescu, Al. P. Chiriță, Șt. Șefu,** I. M. Baciu**, R. Rădoi**
3.	Experimental achievements in the field of Digital Hydraulics	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 224-231, ISSN 1454 – 8003, 2022	**Bogdan Alexandru Tudor, Ștefan Mihai Șefu, Radu Iulian Rădoi, Ioan Pavel**
4.	Study of atmospheric pollen and major air pollutant concentrations in relation with meteorological conditions in Bucharest, Romania	EGU General Assembly 2022, pp. 3053, 10.5194/egusphere-egu22-3053, 2022	Rosianu A.M., Leru P.M., Iorga G., **Marmureanu L.**
5.	System for adjusting the linear displacement velocity and controlling an electrohydraulic servo cylinder	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 210-215, ISSN 1454 – 8003, 2022	**Radu Iulian Rădoi, Alexandru Polifron Chiriță, Bogdan Alexandru Tudor,** Robert Blejan, Vlad Buzoianu
6.	The influence of hydraulic fluid temperature on the adjustment capabilities of servo-mechanisms and closed-circuit hydrostatic transmissions	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 141-151, ISSN 1454 – 8003, 2022	**Alexandru Polifron Chiriță**
7.	Power control of a wind turbine using an electrohydraulically controlled active pitch control mechanism	IOP Conference Series: Materials Science and Engineering, vol. 1262, pp. 12078-12078, doi:10.1088/1757-899X/1262/1/012078, 2022	**Al. P. Chiriță, Șt. Șefu, I. M. Baciu, R. Rădoi, A.-M. Popescu**
8.	Modern techniques for remanufacturing hydraulic equipment in the context of circular economy and energy efficiency	MATEC Web of Conferences, vol. 368, pp. 1009-1009, DOI: 10.1051/matecconf/20223680 1009, 2022	**Catalin Dumitrescu**, Adinel Gavrus, **Radu Radoi, Stefan Sefu, Alexandru-Polifron Chirita, Ana-Maria Popescu**, Dragos Preda
9.	Intelligent hydraulics using artificial intelligence	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 250-257, ISSN 1454 – 8003, 2022	**Ștefan-Mihai Șefu, Bogdan Alexandru Tudor**
10.	Actions and measures for mitigation drought and water scarcity in agriculture / Acțiuni și măsuri pentru atenuarea efectelor secetei și a deficitului de apă din	Proc. of ISB-INMA TEH' International Symposium, pp. 370-377, ISSN-L 2344 – 4118, 2022	Iulian Dumitru, Florin Nenciu, Alexandru Ionescu, Gabriel Nae, Constantin Stan, Lavinia Berca, Floarea

	agricultură		Serbancea, **Ioan Pavel**
11.	Installation for monitoring, control and remote diagnosis of woodbreaker with driving from laptop or smart phone / Instalatie de monitorizare, control si diagnoza la distanta a unui spargator lemne cu conducere de pe laptop sau telefon inteligent	Proc. of ISB-INMA TEH' International Symposium, pp. 414-419, ISSN-L 2344 – 4118, 2022	**G. Matache, M. Ionel, V. Barbu, I. Pavel,** I. Dumitru
12.	Pneumatic equipment for micro-deformation of wires at an electric micromotor in the automobile industry	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 1-10, ISSN 1454 – 8003, 2022	Nicușor Baroiu, Daniela Danci (Mâncilă), Mihăiță Mâncilă, Georgiana-Alexandra Moroșan, Silvian Baroiu, **Cătălin Dumitrescu**
13.	Cloud Classification and Characteristics Analysis of Stratocumulus Clouds over Bucharest-Magurele, Romania	EGU General Assembly 2022, pp. 4375, 10.5194/egusphere-egu22-4375, 2022	Saftoiu Golea G.L., Stefan S., **Antonescu B.,** Iorga G., Hriscan T.
14.	HERA Mission LIDAR Mechanical and Optical Design	IOP Conference Series: Materials Science and Engineering, vol. 1226, pp. 12094, 10.1088/1757-899X/1226/1/012094, 2022	Dias N.G., Arribas B.N., Gordo P., Sousa T., Marinho J., Melicio R., Amorim A., **Belegante L.**, Michel P.
15.	Dynamical aspects of pneumatic propulsion of a pellet	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 99-106, ISSN 1454 – 8003, 2022	**Bogdan-Marian Serban**, **Andrei-Alexandru Benescu**, **Alexandru-Polifron Chirita**
16.	Variations in PM10 Particle Matter Levels in Three Urban Areas in Romania-Comparative Study 2020-2019	EGU General Assembly 2022, pp. 1878, 10.5194/egusphere-egu22-1878, 2022	Burghelea G.B., Stefan S., **Marmureanu L.**, Iorga G.
17.	Optimization of manufacturing processes by reducing the costs of tools and equipment on hydraulically operated high-pressure technological lines	MATEC Web of Conferences, vol. 368, pp. 1008-1008, DOI: 10.1051/matecconf/20223680 1008, 2022	**Teodor Costinel Popescu, Alexandru-Polifron Chiriță, Ana-Maria Carla Popescu**, Andrei Vlad, Gheorghe Alexandru Trăneci, **Alina Iolanda Popescu**
18.	Experimental research on an innovative horticultural technical system of analysis, prediction and biodynamic action	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 265-272, ISSN 1454 – 8003, 2022	**Mihai-Gabriel Matache**, Iuliana Găgeanu, Alexandru Ionescu, Ana-Maria Tăbărașu, **Andrei-Alexandru Benescu**

19.	OPTOELECTRONICS FOR R&R PROCESSES in Optoelectronic developments with impact in Heritage Science-OPTOELECTRONICS FOR R&R PROCESSES	Asociatia Generala a Inginerilor din Romania, 978-973-720-884-2, 2022	**M. Dinu, L. Ghervase, L.M. Angheluță, I.M. Cortea, L.R. Ratoiu, V. Atanassova, R. Radvan**
20.	Hydraulic wood splitting system	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 194-201, ISSN 1454 – 8003, 2022	**Andrei-Alexandru Benescu**, **Bogdan-Marian Șerban**, **Alexandru-Polifron Chiriță**, Mihai Avram, Mihai-Gabriel Matache
21.	Experimental research on equipping low-pressure pumping units with miniboosters	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 131-140, ISSN 1454 – 8003, 2022	**Teodor Costinel Popescu, Ana-Maria Carla Popescu**, Andrei Vlad, Gheorghe Alexandru Trăneci, **Alina Iolanda Popescu**
22.	Modern irrigation systems in agriculture: present situation and main challenges / Sistemele moderne de irigare în agricultură: situația actuală și principalele provocări	Proc. of ISB-INMA TEH' International Symposium, pp. 186-195, ISSN-L 2344 – 4118, 2022	Iulian Dumitru, Florin Nenciu, Alexandru Ionescu, Gabriel Nae, Constantin Stan, Lavinia Berca, Floarea Serbancea, **Gheorghe Șovăială**
23.	PLC implementation of 2-DOF controller for hydraulic drives	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 78-84, ISSN 1454 – 8003, 2022	**Marian Blejan**, **Robert Blejan**, **Ioana Ilie**, Bianca-Maria Tihăuan
24.	Pumping unit equipped with oscillating hydraulic pressure intensifier for cylinders with small overall sizes and large loads throughout the stroke	Conference Proc. International Multidisciplinary Scientific GeoConference SGEM, vol. 22, nr. 1.1, DOI: 10.5593/sgem2022/1.1/s03.040, 2022	**Teodor Costinel Popescu, Alexandru-Polifron Chiriță, Ana-Maria Carla Popescu**, Andrei Vlad, **Alina Iolanda Popescu**
25.	Rheological behavior of biodegradabile fluids used in hydraulic power installations	Proc. of International Conference on Hydraulics and Pneumatics HERVEX, pp. 202-209, ISSN 1454 – 8003, 2022	Andreea-Mirela Teleaşă, Alexandru Valentin Rădulescu, **Cătălin Dumitrescu**, Sorin Cănănău
26.	Acoustic Emission Sensing of Materials and Structures in SENSORDEVICES 2022 The Thirteenth International Conference on Sensor Device Technologies and Applications	SENSORDEVICES 2022, pp. 32-37, 978-1-68558-006-3, 2022	**Irinela Chilibon**
27.	The involvement of Fluid Power in	Proc. of International Conference on Hydraulics and	**Liliana Dumitrescu, Radu Rădoi, Cătălin**

	the field of renewable energy	Pneumatics HERVEX, pp. 240-249, ISSN 1454 – 8003, 2022	**Dumitrescu, Ana-Maria Popescu**, Dragoș Preda
28.	Comparative analysis of biomass thermal generators / Analiza comparativa privind generatoarele termice pe biomasa	Proc. of ISB-INMA TEH' International Symposium, pp. 420-425, ISSN-L 2344 – 4118, 2022	**Gh. Sovaiala, G. Matache, I. Pavel**, C. Sorica, A. Patrut, I. Dumitru
29.	Vertical Assessment of Characteristics of Medium Thick Clouds over Bucharest-Magurele, Romania	Book of Abstracts of 10th Annual International Conference on Physics, pp. 63-64, 978-960-598-523-3, 2022	Saftoiu Golea G.L. , **Pirloaga R**., Stefan S., Iorga G., **Antonescu B.A.**
30.	Groundwater contamination and human health risk assessment in the main karst areas of Romania	ARPHA Conference Abstracts, pp. e89698, 10.3897/aca.5.e89698, 1900	**Ana Moldovan**; **Anamaria Torok**; **Eniko Kovacs**; Ionut-Cornel Mirea; **Erika Levei**; Oana Teodora Moldovan
31.	Quantitative microbial risk assessment as a tool for groundwater monitoring. A case study in the rural communities of Romania	ARPHA Conference Abstracts, pp. e89699, 10.3897/aca.5.e89699, 1900	**Zamfira Stupar**; **Erika Levei; Emilia Neag**; Oana Teodora Moldovan
32.	Acoustic Emission Sensing of Materials and Structures	SENSORDEVICES 2022, pp. 32-37, 978-1-68558-006-3, 1900	**Irinela Chilibon**

ANEXA 8b. Carti si capitole de carte

Nr. Crt.	TITLUL CARTII	EDITURA	AUTORII
1.	Tribological Performance of Coatings Obtained by PVD Techniques: From Industrial to Biological Applications in Handbook of Research on Tribology in Coatings and Surface Treatment	IGI Global, pp. 196-217, 10.4018/978-1-7998-9683-8.ch009, 2022	**M. Dinu, I. Pana, A.C. Parau, A. Vladescu**
2.	Gas Chromatographic: Mass Spectrometric Mining the Volatilomes Associated to Rhizobiota Exposed to Commonly Used Pharmaceuticals in Biodegradation Technology of Organic and Inorganic Pollutants	InTechOpen, 10.5772/intechopen.102895, 2022	**E.D. Kovacs, M.H. Kovacs**
3.	Biocurățarea cu enzime bacteriene integrate in geluri in Ghid de curățare a picturii murale: de la curățarea mecanică la cea ecologică - subcapitol 6.3	UNARTE , pp. 46-81, 978-606-720-166-6, 2022	I. Gomoiu, L**. Ghervase, R. Radvan,** G. Maria, M. Dumbravician