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## L I S T A

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat

#### B. Cărți și capitole în cărți publicate în ultimii 10 ani

- B1. Stroia I., **Biriș S.Șt.**, Begea M., *-Utilaje pentru industria malțului și a berii*, Editura CISON, București, 200 pg., ISBN 973-98623-0-6, **1998**.
- B2. Stroia I., **Biriș S.Șt.**, *-Utilaje pentru industria alimentară fermentativă*, Curs, Vol. 1, Litografia U.P.B., 240 pg., **1995**.
- B3. Stroia I., Begea M., **Biriș S.Șt.**, *-Bilanțul azotat la fabricarea berii*, Editura PRINTECH, București, 100 pg., ISBN 973-9402-08-9, **1998**.
- B4. **Biris S.St.**, Ionescu M., Voicu Gh., Ungureanu N., Vladut V., Capitol 21: “*Calculus Elements for Mechanical Presses in Oil Industry*”, Carte: *Food Industry*, Editor: Innocenzo Muzzalupo, Locul apariției: Rijeka, Croația, Editura InTech, Data apariției: ianuarie **2013**, ISBN: 978-953-51-0911-2, Pag. 471-489.
- B5. Voicu Gh., **Biris S.St.**, Stefan E.M., Constantin G.A., Ungureanu N., Capitol 15: “*Grinding Characteristics of Wheat in Industrial Mills*”, Carte: *Food Industry*, Editor: Innocenzo Muzzalupo, Locul apariției: Rijeka, Croația, Editura InTech, Data apariției: ianuarie **2013**, ISBN: 978-953-51-0911-2, Pag. 323-354.

#### C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

- C1. Atanasov, A. Z., Evstatiev, B. I., Vladut, V. N., **Biris, S. S. (autor corespondent) (2024)**. A Novel Algorithm to Detect White Flowering Honey Trees in Mixed Forest Ecosystems Using UAV-Based RGB Imaging. *AgriEngineering*, 6(1), 95-112. [Q2, ISI Impact Factor: 3.0] (**WOS:001191456200001**)
- C2. Raluca-Adriana ZOTA, **Sorin-Ștefan BIRIȘ**, Neluș-Evelin GHEORGHITĂ, PNEUMATIC CONVEYING SYSTEMS IN THE AGRICULTURE INDUSTRY – STATE OF THE ART, Proceedings of the XV International Scientific Agricultural Symposium “Agrosym 2024”, Jahorina, Bosnia and Herzegovina, October 10 - 13, **2024**, pp. 606-613 (CABI)
- C3. Adrian IOSIF, Edmond MAICAN, **Sorin-Ștefan BIRIȘ**, Nicolae-Valentin VLĂDUȚ, ENHANCING APPLE QUALITY ASSESSMENT THROUGH ANOMALY DETECTION WITH AUTOENCODERS, Proceedings of the XV International Scientific Agricultural Symposium “Agrosym 2024”, Jahorina, Bosnia and Herzegovina, October 10 - 13, **2024**, pp. 266-271 (CABI)

- C4. Tăbărașu, A. M., Anghelache, D. N., Găgeanu, I., **Biriș, S.Ș. (autor corespondent)**, Vlăduț, N. V. (2023). Considerations on the Use of Active Compounds Obtained from Lavender. Sustainability, 15(11), 8879. DOI:10.3390/su15118879, [Q2, ISI Impact Factor: 3.9] WOS:001004891600001
- C5. Nenciu, F.; Fatu, V.; Arsenoaia, V.; Persu, C.; Voicea, I.; Vladut, N.V.; Matache, M.G.; Gageanu, I.; Marin, E.; **Biris, S.S.**; Ungureanu, N. (2023). Bioactive Compounds Extraction Using a Hybrid Ultrasound and High-Pressure Technology for Sustainable Farming Systems. AGRONOMY-BASEL, 13(4), 899. DOI:10.3390/agriculture13040899, (Q1, FI=3,6) WOS:000979407100001
- C6. Ungureanu, N., Vladut, V, **Biris, S. S. (autor corespondent)** (2022). Sustainable Valorization of Waste and By-Products from Sugarcane Processing. SUSTAINABILITY, 14(17), 11089. [Q2, ISI Impact Factor: 3.889], DOI10.3390/su141711089 (WOS: 000851990700001)
- C7. Gageanu, I., Cujbescu, D., Persu, C., Tudor, P., Cardei, P., Matache, M., Vladut V., **Biris S.**, Voicea I., Ungureanu, N. (2021). Influence of Input and Control Parameters on the Process of Pelletizing Powdered Biomass. Energies, 14(14), 4104. (Q3, FI=3,004) WOS:000676151400001
- C8. Stoian, O., Covaliu, C. I., Paraschiv, G., Niță-Lazăr, M., Matei, E., **Biriș, S. Ș.**, Tudor, P. (2021). Magnetite Oxide Nanomaterial Used for Lead Ions Removal from Industrial Wastewater. Materials, 14(11), 2831. (Q2, FI=3,623) WOS:000660259000001
- C9. **Biris, S. St.**, Ionescu M., Gheorghita N.E., Ungureanu N., Vladut N.V., (2019). *Study of the compression behavior of sunflower seeds using the finite element method*. AGROFOR International Journal, 4(1), p. 128-136, ISSN: 2490-3434,
- C10. Rusanescu C.O., Voicu Gh., Rusanescu M., **Biriș, S. Șt.**, (2018). *Getting Oil Pipes High Strength Quenched And Tempered Condition*. REV.CHIM. (Bucharest). 69. No. 7, p.1866-1870. [ISI Impact Factor: 1,412], ISSN 2537-5733, WOS: 000444595700054
- C11. I.C. Dutu, **S.Șt. Biris**, E. Maican - *Aspects regarding the Use of Digital Hydraulics in P.E.T. Waste Baling Presses*, HIDRAULICA Magazine No. 4 / 2017, ISSN: 1453 – 7303, pp. 109-114.
- C12. Ionescu M., Voicu Gh., **Biriș S.Șt.**, Ștefan E.M., Ungureanu N., Dincă M.N., *Determination of some mechanical properties for oilseeds using uniaxial compression tests*. INMATEH – Agricultural Engineering, INMA Bucuresti, Vol.49, No.2 /2016 , pag. 71-76, ISSN 1583-1019
- C13. Voicea I., Voicu G., Cârdei P., Vlăduț V., **Biriș S.Șt.** - *A Mathematical Model of Chopped Miscanthus Briquetting Process*. Procedia Technology, 19, 750-757. 2015 (doi:10.1016/j.protcy.2015.02.106) [ELSEVIER]

#### D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți

- D1. Raluca-Adriana ZOTA, **Sorin-Ștefan BIRIȘ**, Neluș-Evelin GHEORGHITĂ, Adrian IOSIF, Alina-Daiana IONESCU, Alin-Nicolae HARABAGIU, STATIC STRUCTURAL ANALYSIS OF PNEUMATIC CONVEYOR SYSTEMS USING SOLIDWORKS SIMULATION, International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering, pp. 256-267, oct. 2024, Bucharest. Print: ISSN 2344-4118. Electronic: 2537-3773. CD-ROM ISSN 2344-4126. ISSN-L 2344-4118, pp. 1078-1083 (BDI – CAB Direct, Index COPERNICUS).

- D2. Oana-Elena MILEA, **Sorin-Ștefan BIRIȘ**, Iuliana GĂGEANU, Ana-Maria TĂBĂRAȘU, Vasilica ȘTEFAN, Nicoleta UNGUREANU, Elena-Valeria VLĂDUȚ, Daniel DUMITRESCU, ASPECTS ON WINE-MAKING TECHNOLOGIES USED IN THE MANUFACTURE OF WHITE AND RED WINES, International Symposium ISB-INMATEH – Agricultural and Mechanical Engineering, pp. 268-276, oct. **2024**, Bucharest. Print: ISSN 2344-4118. Electronic: 2537-3773. CD-ROM ISSN 2344-4126. ISSN-L 2344-4118, pp. 620-629 (BDI – CAB Direct, Index COPERNICUS).
- D3. Ungureanu, N., Vladut, V., **Biris, S.-S.** - Capitalization of wastewater-grown algae in bioethanol production, Engineering for Rural Development, Volume 19, **2020**, Pages 1859-1864, 19th International Scientific Conference Engineering for Rural Development, ERD 2020; Jelgava; Latvia; 20 May 2020 through 22 May 2020; Code 161507, ISSN: 1691-3043, [SCOPUS] DOI: 10.22616/ERDev2020.19.TF507
- D4. Milian, G., **Biriș, S.-S. (conducător doctorat)**, Ipate, G., (...), Sorica, C., Nenciu, F. - An analysis of baffles designs for limiting impact on the directional response for a partially filled tank with agro-food liquids, E3S Web of Conferences, Volume 180, 24 July **2020**, Article number 03024 9th International Conference on Thermal Equipments, Renewable Energy and Rural Development, TE-RE-RD 2020; Constanta; Romania; 26 June 2020 through 27 June 2020; Code 162122, ISSN: 2555-0403, [SCOPUS], DOI: 10.1051/e3sconf/202018003024
- D5. Vasilachi, C., **Biris, S.-S. (conducător doctorat)**, Gheorghe, G. - Study of the compression behaviour of grape seeds using the Finite Element Method, E3S Web of Conferences, Volume 180, 24 July **2020**, Article number 03017, 9th International Conference on Thermal Equipments, Renewable Energy and Rural Development, TE-RE-RD 2020; Constanta; Romania; 26 June 2020 through 27 June 2020; Code 162122, ISSN: 2555-0403, [SCOPUS], DOI: 10.1051/e3sconf/202018003017
- D6. Milian, G., **Biriș, S.-S. (conducător doctorat)**, Ipate, G. - *Modelling behaviour of a partially loaded road tanker with agro-food liquids during the breaking manoeuver*, E3S Web of Conferences 112,03006, Volume 112, 20 August 2019, Article number 03006, 8th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD 2019; Targoviste; Romania; 6 June 2019 through 8 June **2019**; Code 151155, [SCOPUS] ISSN: 2555-0403 DOI: **10.1051/e3sconf/201911203006**
- D7. Vasilachi, C., **Biriș, S.-S. (conducător doctorat)** - *Modelling by finite element method of the twin-screw of a press for obtaining grape seed oil*, E3S Web of Conferences 112,03022, Volume 112, 20 August **2019**, Article number 03022, 8th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD 2019; Targoviste; Romania; 6 June 2019 through 8 June 2019; Code 151155, ISSN: 2555-0403, [SCOPUS], DOI: **10.1051/e3sconf/201911203022**
- D8. Ipate G., **Biris S.St.**, Voicu Gh., Vladut V., Zabava B., Udroi N.A., Pihurov M., - *Numerical simulation and experimental evaluation of the rheological behaviour of cheese*, Proceedings of the 6<sup>th</sup> International Conference "Research People and Actual Tasks on Multidisciplinary Sciences", ISSN 1313-7735, pag. 1-5, 12–15 June **2019**, Lozenec, Bulgaria.

- D9. Milian G., **Biris S.St.**, Ipate G., - *State of the art regarding the construction of the tankers for agri-food liquids*, Proceedings of the 6<sup>th</sup> International Conference "Research People and Actual Tasks on Multidisciplinary Sciences", ISSN 1313-7735, pag. 40-44, 12–15 June **2019**, Lozenec, Bulgaria.
- D10. Mihaila G.L., **Biris S.St.**, - *About the technologies and equipment used to extract the juice from the sweet sorghum strains*, Proceedings of the 6<sup>th</sup> International Conference "Research People and Actual Tasks on Multidisciplinary Sciences", ISSN 1313-7735, pag. 264-268, 12–15 June **2019**, Lozenec, Bulgaria.
- D11. Vasilachi C., **Biris S.St.**, - *Synthesis of the theoretical and experimental researches on the technologies for obtaining grape seed oil*, Proceedings of the 6<sup>th</sup> International Conference "Research People and Actual Tasks on Multidisciplinary Sciences", ISSN 1313-7735, pag. 316-320, 12–15 June **2019**, Lozenec, Bulgaria.
- D12. **Biriş S.Şt.**, Vasilachi C. – *Research on the extraction methods of grape seed oil*, Proceedings of the ISB-INMA TEH - Agricultural and Mechanical Engineering International Symposium, 1-3 Nov. **2018**, pp. 629-634, ISSN 2344 - 4118, Bucharest, Romania.
- D13. Milian G., **Biriş S. Şt.** – *Classification criteria of agro-food tankers*, Proceedings of the ISB-INMA TEH - Agricultural and Mechanical Engineering International Symposium, 1-3 Nov. **2018**, pp. 511-516, ISSN 2344 - 4118, Bucharest, Romania.
- D14. G. Milian, **S.Şt. Biriş**, V. Moise - *Theoretical elements for the constructive optimization of the agro-food products recipients*, 7th International Conference on Thermal Equipment, Renewable Energy and Rural Development; Drobeta Turnu Severin; 31 mai - 2 iunie **2018**; ISSN 2457-3302; ISSN-L 2457-3302; pag. 435-440
- D15. M. Ionescu, Gh. Voicu, **S.Şt. Biriş**, V. Vlăduţ, N. Ungureanu, E.M. Ştefan, M. Dincă, M. Matache, -*Oil extraction using a vertical press with piston*, Proceeding of the 44th International Symposium „Actual Tasks on Agricultural Engineering”, Croația, Opatija, ISSN 1333-2651, pg. 249-258, 23-26 febr. **2016**, [ISI Proceedings]; <http://atae.agr.hr/>
- D16. Ionescu M., Voicu Gh., **Biriş S.Şt.**, Ungureanu N., Vladut V., Voicea I., Persu C., - *Oil expression process using screw presses with strainers oil outlet*, Proceeding of the 43<sup>rd</sup> International Symposium „Actual Tasks on Agricultural Engineering”, Croația, Opatija, ISSN 1333-2651, pg. 513-524, 24-27 febr. **2015**, [ISI Proceedings]; <http://atae.agr.hr/>.
- E. Brevete obținute în întreaga activitate**
- E1. Vladut V., Marin E., **Biris S.St.**, Bungescu S., Ungureanu N., Element suplimentar pentru organul tip dalta al echipamentului de lucrat solul, A-00111 / 27.02.2017, **RO 132740 B1 / 30.12.2022**
- E2. V. Vladut, E. Marin, M.G. Matache, **S.St. Biris**, E. Maican, I. Grigore, N. Ungureanu - Metoda pentru determinarea intensitatii liniare a uzarii organului activ tip dalta al echipamentului de lucrat solul; A-00217/11.04.2017, **RO132885/28.10.2022**

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**Semnătura:**