

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Energetică

Departamentul: Hidraulică, Mașini Hidraulice și Ingineria Mediului

Nume Prenume: Șerban Dana Andreya

Gradul didactic: Șef de lucrări

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

BONDREA Dana Andreya, Valorificarea energetică a grăsimii animale mixate în hidrocarburi lichide ușoare, Universitatea POLITEHNICA din București, Școala Doctorală Energetică, (2019)

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

1. Boncescu Corina, **Șerban Dana Andreya**, Monitorizarea și controlul calitatii apei în rețele de distribuție, suport curs electronic - <https://energ.curs.pub.ro/2019/course>

2. **Șerban Dana Andreya**, Boncescu Corina – Aplicații de modelare și simulare în EPANET, platforme de laborator format electronic - <https://energ.curs.pub.ro/2019/course>

3. **Bondrea D-A.**, Lăzăroiu Gh., Mihăescu L., Negreanu G-P., *Experimental Tests On The Combustion Of Animal Fats*, In Innovative Renewable Waste Conversion Technologies, ISBN 978-3-030-81430-4, ISBN (eBook): 978-3-030- 81431-1, doi.org/10.1007/978-3-030-81431-1_5, Publisher: *Springer Nature*, Editors: LĂZĂROIU Gh., MIHĂESCU L., pp: 103-148, 30 pag., 2021

4. **Șerban Dana Andreya**, Boncescu Corina - Introducere în Python, suport curs electronic-<https://energ.curs.pub.ro/2019/course>

5. Boncescu Corina, **Șerban Dana Andreya** - Introducere în Python, platforme de laborator format electronic - <https://energ.curs.pub.ro/2019/course>

6. Gheorghe Lăzăroiu, Lucian Mihăescu, **Dana Andreya Bondrea**, Ionel Pișă, Laura Alexandra Stanescu, Gabriel Paul Negreanu, Elena Adriana Jarcu, Viorel Berbece, Mihai Ionel Dragne, Dana Aleaxandra Ciupageanu, Holostica impactului surselor regenerabile de energie asupra mediului și climei, Editura Politehnica Press, ISBN Vol. 3. 978-606-515-917-4, Editori: Prof. dr. ing. Dan Niculae Robescu; Prof. dr. ing. Ion Oprea, București, nr. pag. 183, 2020.

7. Gheorghe Lăzăroiu, Lucian Mihăescu, Teodora Vatuiu, Ionel Pisa, **Dana Andreya Bondrea**, Gabriel Paul Negreanu, Elena Adriana Jarcu, Viorel Berbece, Holostica impactului surselor regenerabile de energie asupra mediului și climei, Editura Politehnica Press 2018, ISBN Vol. 2. 978-606-515-840-5, nr. pag. 124, 2018.

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

1. Boncescu, C., Robescu, L.D., **Bondrea, D.A.**, Macinic, M.E., Study of energy consumption in a wastewater treatment plant using logistic regression, IOP Conference Series: Earth and Environmental Science, **2021**, 664(1), 012054, **indexata BDI: SCOPUS**
2. **Bondrea D.A.**, Lăzăroiu G., (2018), *Analysis and simulation by ANSYS CFX of the aerodynamics flame for burning animal fats with liquid hydrocarbons*, University POLITEHNICA of Bucharest Scientific Bulletin, Series D-Mechanical Engineering, Volume 80, Issue 4, Pages 103-116, ISSN: 14542358, **indexată BDI: SCOPUS**
3. Lăzăroiu G., Pop E., Negreanu G., Pișă I., Mihăescu L., **Bondrea A.**, Berbece V., (2017), Biomass combustion with hydrogen injection for energy applications, ENERGY, ISSN: 03605442, eISSN: 1873-6785, 2017, Volume 127, Pages 351-357, DOI:10.1016/j.energy.2017.03.133, IF/2018=5,537, WOS: 000403991400031, **Q1**, **indexată BDI: Science Direct**
4. Mărunțelu O., Lăzăroiu G., **Bondrea D.A.** (2015) , *Mathematical model for air pollutants dispersion emitted by fuel combustion*, University POLITEHNICA of Bucharest Scientific Bulletin, Series D-Mechanical Engineering, Volume 77, Issue 4, Pages 229 – 236, ISSN:1454-2358, **indexată BDI: SCOPUS**
5. Boncescu, C., Robescu, L.D., Bondrea, D.A., Macinic, M.E., Study of energy consumption in a wastewater treatment plant using logistic regression, IOP Conference Series: Earth and Environmental Science, 2021, 664(1), 012054, **indexata BDI: SCOPUS**
6. Lăcrămioara Diana Robescu; Corina Boncescu; **Dana Andreyia Bondrea**; Elena Presura – Chirilescu (2019), *Impact of wastewater treatment plant technology on power consumption and carbon footprint*, 2019 International Conference on ENERGY and ENVIRONMENT (CIEM), 17-18 Oct.2019, Timișoara, România, ISBN: 978-1-7281-1532-0, DOI: 10.1109/CIEM46456.2019.8937570, pag. 524 – 528, **indexată BDI: IEEEExplore**
7. Robescu, L.D., **Bondrea, A.D.**, Radosavlevici, I., Stoicescu, A., (2018), *Comparative study on sequential batch reactor and granular sequencing batch reactor*, RECENT ADVANCES ON ENVIRONMENT, CHEMICAL ENGINEERING AND MATERIALS, AIP Conference Proceedings, vol. 2022, article number 020021-1, DOI: 10.1063/1.5060701, International Conference on Environment, Chemical Engineering and Materials, Sliema, Malta, Jun 22-24, 2018, **WOS: 000481676400021**, **indexată BDI: SCOPUS**
8. Robescu, Lăcrămioara Diana, **Bondrea, Dana Andreyia**, (2018), *The water footprint from hydroelectricity: a case study for a hydropower plant in Romania*, SUSTAINABLE SOLUTIONS FOR ENERGY AND ENVIRONMENT (EENVIRO 2018), Book Series: E3S Web of Conferences, Volume: 85, Article Number: 06012, DOI: 10.1051/e3sconf/20198506012, Conference on Sustainable Solutions for Energy and Environment (EENVIRO), Cluj Napoca, ROMANIA, OCT 09-13, 2018, ISSN: 2267-1242, **WOS:000468021200058**, **indexată BDI: SCOPUS**
9. Jarcu, E.-A., Robescu, L.-D., **Bondrea, D.-A.**, (2018), *Analysis of treatment scenarios for recycling and reusing of wastewater*, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 18(5.1), pp. 43-50, **indexată BDI: SCOPUS**
10. **Bondrea D.A.**, Lăzăroiu G., Mocanu R., Stan A.N., Bălănescu L., Mihăescu L., Berbece V., (2017) *The energy method to protect the environment from waste in the leather industry*, 8th International

- Conference on Energy and Environment (CIEM), Bucharest, ROMANIA, OCT. 19-20, 2017, Pages 105-109, ISBN:978-1-5386-3943-6, ISSN: 2067-0907, **WOS:000427610300023**, **indexată BDI: SCOPUS, IEEEExplore**
11. Mavrodin M., Lăzăroiu G., Mihăescu L., Pișă I., Negreanu G., Pop E., Berbece V., **Bondrea A. (2017)**, *Solution for efficient combustion of the biogas obtained depending on the characteristics of the anaerobic fermentation of animal protein*, 8th International Conference On Energy And Environment (CIEM), Bucharest, ROMANIA, OCT. 19-20, 2017, Pages 385-389, ISBN:978-1-5386-3943-6, ISSN: 2067-0907, **WOS:000427610300082**, **indexată BDI: SCOPUS, IEEEExplore**
 12. Lăzăroiu G., Mihăescu L., Mavrodin M., **Bondrea A. (2017)**, *Influence of energy characteristics of biogas obtained by anaerobic fermentation of animal proteins on combustion performance*, 2017 11th International Conference on Electromechanical and Power Systems (SIELMEN2017), Iași, ROMANIA OCT. 11-13, Pages 245 – 249, ISBN: 978-1-5386-1846-2, **WOS: 000426906000048**, **indexată BDI: SCOPUS, IEEEExplore**
 13. **Bondrea A.D.**, Lăzăroiu G., Mihăescu L., Berbece V., **(2018)**, *The particularities flame to burning bio-fuels*, 18th International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, Volume 18, Issue 4.1, Pages 697-704, Albena, Bulgaria, ISSN:13142704, DOI: 10.5593/sgem2018/4.1/S17.090, **indexată BDI: SCOPUS**
 14. Gheorghe Lazaroiu, Elena Madalina Mavrodin, **Andreya Dana Bondrea**, Lucian Mihaescu, Raluca Mocanu **(2017)**, *Biogas production-future solution management of tanneries wastes*, 17th International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, Volume 17, Issue 42, Pages 97-102, 29 June-5 July 2017, Bulgaria, Albena, Section Renewable Energy Sources and Clean Technologies, Albena, DOI: 10.5593/sgem2017/42/S17.013, ISSN: 13142704, **indexată BDI: SCOPUS**
 15. Gheorghe Lazaroiu, Raluca Catalina Moacanu, **Andreya Dana Bondrea**, Elena Madalina Mavrodin, Liviu Balanescu **(2017)**, *Use of animal fat waste as a bio-fuel*, 17th International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, Volume 17, Issue 42, Pages 675-682, Bulgaria, Albena, Section Renewable Energy Sources and Clean Technologies, ISSN:13142704, DOI: 10.5593/sgem2017/42/S17.084, **indexată BDI: SCOPUS**
 16. **D.A. Bondrea**, L. Mihăescu, G. Lăzăroiu, I. Pișă, G. Negreanu **(2019)**, *Researches on the mixture limits of animal fats with liquid hydrocarbons for combustion at industrial level*, 8th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), Volume 112, article number 02001, Târgoviște, România, ISSN: 25550403, DOI: 10.1051/e3sconf/201911202001, **indexată BDI: SCOPUS, E3S Web of Conferences**

**D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți
(neindexate)**

- Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

1. Gheorghe Lăzăroiu, Lucian Mihăescu, Ionel Pișă, Gabriel Negreanu, Dana Ciupăgeanu, **Andreya Bondrea**, Viorel Berbece, Victor Galbură, Mihai Tîrșu *EXPERIMENTS ON THE ENERGY CHARACTERISTICS OF POULTRY MANURE*, 7th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD 2018, Proceeding, ISSN: 2359 – 7941, ISSN-L: 2359 – 7941, pag. 91-94, Drobeta Turnu Severin, 31 May - 2 June 2018, Romania.
- 2.. L. Mihăescu, G. Lăzăroiu, I. Pișă, E. Pop, G. Negreanu, V. Berbece, **A. Bondrea**, *Analysis of the possibilities of combustion of animal fat mixed with liquid hydrocarbons in boilers with small furnaces*, 6th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), Proceeding, pp. 83 - 86, ISSN: 2457-3302, ISSN-L:2457-3302, 8 - 10 Iunie 2017, Moieciu de Sus, România, 2017.
- 3..G. Lăzăroiu, L. Mihăescu, I. Pișă, G. Negreanu, E. Pop, V. Berbece, **A. Bondrea**, *Analysis of flame aerodynamics for burning tests of animal fat mixed with liquid hydrocarbons*, 6th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), Proceeding, pp. 73 - 76, ISSN:2457-3302, ISSN-L:2457-3302, 8 - 10 Iunie 2017, Moieciu de Sus, Romania, 2017
- 4.. **A. Bondrea**, R. Mocanu, *The impact of the leather industry left on the environment*, 5th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), Proceeding, pp. 473 – 476, ISSN:2457-3302, ISSN-L:2457-3302, 2 - 4 Iunie 2016, Golden Sands, Bulgaria, 2016.
5. **A. Bondrea**, G. Coară, *Recovery of trivalent chromium from the wastewater used for tanning of hides*, 5th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), Proceeding, pp. 477 – 480, ISSN:2457-3302, ISSN-L:2457-3302, 2 - 4 Iunie 2016, Golden Sands, Bulgaria, 2016.
- 6.. **D. A. Bondrea**, C. R. Mocanu, G. Lăzăroiu, O. Mărunțelu, A. N. Stan, M. M. Toader, *Energy recovering from tanneries by biodiesel production*, 4th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), Proceeding, pp. 429 – 434, ISSN:2457-3302, ISSN-L:2457-3302, 4 - 6 Iunie 2015, Posada Vidraru, România, 2015.
7. A. Bîrlog, **A. Bondrea**, R. Tudor, *Design and simulation of a photovoltaic water pumping system in a wastewater treatment plant*, 5th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), Proceeding, pp. 461 - 466, ISSN:2457-3302, ISSN-L:2457-3302, 2 - 4 Iunie 2016, Golden Sands, Bulgaria, 2016.
- 8.. O. Mărunțelu, G. Lăzăroiu, **D. A. Bondrea**, A. N. Stan, *Simulation comparison of the plume rise using ANSYS CFD-CFX and aermod model*, 4th International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD), Proceeding, pp. 57 – 62, ISSN:2457-3302, ISSN-L:2457-3302, 4 - 6 Iunie 2015, Posada Vidraru, România, 2015.
9. G. LAZAROIU, C. R. MOCANU, M. FLORESCU, M. ROSCIA, **D. A. BONDREA**, *COST-BENEFIT ANALYSIS FOR GREEN TANNERY IMPLEMENTATION*, 4th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD 2015, Proceeding, ISSN:2457-3302, ISSN-L:2457-3302, pag. 447-452, Posada Vidraru, 4-6 June 2015, Romania
10. M. MAVRODIN, C. R. MOCANU, G. LAZAROIU, **D. A. BONDREA**, B. NICULESCU, R. CIPOLLONE, *ENERGY RECOVERING FROM TANNERIES BY BIOGAS PRODUCTION*, 4th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-

RD 2015, Proceeding, ISSN:2457-3302, ISSN-L:2457-3302, pag. 453-458, Posada Vidraru, 4-6 June 2015, Romania

11. C. R. MOCANU, B. NICULESCU, GH. LAZAROIU, **D. A. BONDREA**, A. N. STAN, M. MAVRODIN, *POLLUTANT FACTORS IN PROCESSING OF HIDES AND SKINS*, 4th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD 2015, Proceeding, ISSN:2457-3302, ISSN-L:2457-3302, pag. 471-474, Posada Vidraru, 4-6 June 2015, Romania.

12. O. UDREA, GH. LAZAROIU, M. ROSCIA, **D.A. BONDREA**, *EU 2020 TARGETS FROM THE MEMBERS STATE PERSPECTIVE*, 4th International Conference on Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD 2015, Proceeding, ISSN:2457-3302, ISSN-L:2457-3302, pag. 485-488, Posada Vidraru, 4-6 June 2015, Romania.

Data:

Semnătura: