

LISTA LUCRĂRILOR PUBLICATE

Conf. univ. dr. ing. habil. **Alexandra-Dana Chițimuș**

LISTA CELOR 10 LUCRĂRI RELEVANTE

1. **Dana Chitimus**, Valentin Nedeff, Emilian Mosnegutu, Narcis Barsan, Oana Irimia, Florin Nedeff, Studies on the Accumulation, Translocation, and Enrichment Capacity of Soils and the Plant Species Phragmites Australis (Common Reed) with Heavy Metals, Sustainability 2023, 15, 8729
2. Elena Goldan, Valentin Nedeff, Narcis Barsan, Mihaela Culea, Mirela Panainte-Lehadus, Emilian Mosnegutu, Claudia Tomozei, **Dana Chitimus**, Oana Irimia, Assessment of Manure Compost Used as Soil Amendment—A Review, Processes 2023, 11, 1167.
3. Bibire, Luminita, **Chitimus, Alexandra-Dana**, Ghenadi, Adrian-Stelian, Multi-Criteria Assessment of Taxi Transport Services for Public Procurement: Case Study for Bacau City, Sustainability 2023.
4. Mohamed Abdelwaheb, Valentin Nedeff, Sonia Dridi-Dhaouadi, Emilian Moșneguțu, Narcis Barsan, **Alexandra-Dana Chițimuș**, Assessment of cadmium and copper adsorption by two agricultural soils from Romania and Tunisia: risk of water resource pollution, Processes, Volume 10, 1802, 2022.
5. **Chitimus A.D.**, Nedeff V., Muscalu (Plescan) O., Mosnegutu E., Barsan N., Panainte-Lehadus M., Tomozei C., Influence of fertilization systems to the soil inorganic compounds. Case study: monocultures of cereals, leguminous and oleaginous, Global NEST Journal, vol. 23, nr. 2, p. 275-279, 2021.
6. Oana Maria Muscalu (Plescan), Valentin Nedeff, **Alexandra Dana Chitimus**, Ioan Gabriel Sandu, Elena Partal, Emilian Mosnegutu, Ion Sandu, Dragos Ioan Rusu, Influence of Fertilization Systems on Physical and Chemical Properties of the Soil Revista De Chimie (Bucharest), 2018, vol. 69, nr. 11, pg. 4006-4011.
7. **Alexandra-Dana Chițimuș**, Emilian Florin Mosnegutu, Mihai C. Nicolescu, Mariana Turcu, Mihai Belciu, Greta Ardeleanu, Mathematical modelling of water migration time in soil, Environmental Engineering and Management Journal, vol. 13, nr. 7, 2014, p. 1581-1856.
8. **Alexandra-Dana Chitimus**, Valentin Nedeff, Emilian Florin Mosnegutu, Mirela Panainte, In situ soil flushing studies on remediation efficiency of polluted sandy soils with organic acids, Environmental Engineering and Management Journal, 2012, vol. 11, nr. 12, pg. 2163-2168
9. **Alexandra-Dana Chitimus**, Cristian Radu, Valentin Nedeff, Emilian Mosnegutu, Narcis Bârsan, Studies and researches on Typha Latifolia's (bulrush) absorption capacity of heavy metals from the soil, Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2016, vol. 17, nr. 4, p. 381-393.
10. Cristian Radu, **Alexandra-Dana Chițimuș**, Mariana Turcu, Greta Ardeleanu, Mihai Belciu, Impacts of anthropogenic activities in Bacau area upon heavy metals concentration on Bistrita river sides, Environmental Engineering and Management Journal, vol. 13, nr. 7, 2014, p. 1687-1691.

TEZA DE DOCTORAT

DOMENIUL INGINERIE MECANICĂ

Studii și cercetări cu privire la influența proprietăților fizice și mecanice ale solului în procesul de autoepurare și epurare

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CĂRȚI ȘI CAPITOLE DIN CĂRȚI

1. **Chițimuș Alexandra-Dana**, Nedeff Valentin, Moșneguțu Emilian, Lazăr Gabriel, Tehnologii pentru depoluarea solului, Carte Științifică, Editura Alma Mater Bacău, ISBN 978-606-527-218-7, 2012.
2. **Chițimuș Alexandra-Dana**, Nedeff Valentin, Moșneguțu Emilian, Panainte Lehaduș Mirela, Tomozei Claudia, Irimia Oana, Bârsan Narcis, Nedeff Florin Marian, Proceduri de lucru pentru analiza solului și a altor materiale, vol. 1, Editura Alma Mater Bacău, ISBN 978-606-527-582-9, 2017
3. **Chițimuș Dana**, Nedeff Valentin, Tomozei Claudia, Bârsan Narcis, Irimia Oana, Moșneguțu Emilian, Nedeff Florin, Panainte-Lehaduș Mirela, Proceduri de lucru pentru analiza solului și a altor materiale, vol. 2, Alma Mater, ISBN 978-606-527-581-2, 978-606-527-583-6, 2018.
4. Bibire Luminita, **Chițimuș Alexandra-Dana**, Sănătate și securitate ocupațională, Alma Mater, Bacău, ISBN 978-606-533-1, 2016.
5. Bârsan Narcis, Nedeff Valentin, Irimia Oana, Mirela Panainte-Lehadus, Emilian Mosnegutu, **Dana Chițimuș**, Tomozei Claudia, Nedeff Florin, Proceduri de lucru pentru analiza calității apelor și a altor compuși lichizi, Alma Mater, ISBN 978-606-527-589-8, 2018.
6. Nedeff Valentin, Tomozei Claudia, Irimia Oana, Mirela Panainte-Lehadus, Emilian Mosnegutu, **Dana Chițimuș**, Bârsan Narcis, Nedeff Florin, Proceduri de lucru pentru analiza calității aerului și a altor compuși gazoși, Alma Mater, ISBN 978-606-527-593-5, 2018.
7. Mosnegutu Emilian Florin, **Chițimuș Alexandra-Dana**, Barsan Narcis, Nedeff Florin, Îndrumar de laborator, separarea, mărunțirea, amestecarea și transportul produselor, Alma Mater, ISBN 978-606-527-635-2, 2019.
8. Valentin Nedeff, **Dana Chitimus**, Luminita Bibire, Panainte-Lehadus Mirela, Tomozei Claudia, Nedeff Florin, Paul Cotârleț, Ergonomie, Alma Mater, ISBN 978-606-527-590-4, 2021.

ARTICOLE PUBLICATE ÎN REVISTE INDEXATE ISI

1. Luminita Bibire, Florin Ion Lazar, **Alexandra-Dana Chitimus**, Adrian Stelian Ghenadi, Risk management in industrial companies, case study: collective work accident at a brewery, Scientific Study and Research Chemistry and Chemical Engineering, Biotechnology, Food Industry, vol. 21, nr. 1 2020, pg. 111-124, autor corespondent.
2. Oana Tirtoaca (Irimia), Mirela Panainte-Lehadus, Claudia Tomozei, Emilian Mosnegutu, **Alexandra-Dana Chitimus**, Narcis Barsan, Study regarding the measuring of particulate matter PM2.5 and PM10 in industrial working environments, Scientific Study and Research Chemistry and Chemical Engineering, Biotechnology, Food Industry, vol. 21, nr. 2, 2020, p. 271 – 278.

3. Laurențiu Tataru, Valentin Nedeff, Emilian Moșneguțu, Mirela Panainte-Lehăduș, **Dana Alexandra Chițimuș**, Exploitation of organic ultrafiltration membranes in the removal of peptone from wastewater, Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry, vol. 20, nr. 1, 2019, pg. 75-87.
4. Laurențiu Tataru, Narcis Barsan, Florin Marian Nedeff, Ion Sandu, Emilian Mosnegutu, **Dana Alexandra Chitimus**, Alina Cochiorca, Ioan Gabriel Sandu, Treatment Study of Brook Water by Using the Ultrafiltration Pilot with Polymeric Membrane, Revista de Materiale Plastice, 2019, vol. 56, no. 4, p. 986-994.
5. Emilian Florin Mosnegutu, Valentin Nedeff, **Alexandra Dana Chitimus**, Dragos-Ioan Rusu, Ion Joita, Aspects regarding the Siret river direction-changing in the Bacau County Region, Romania, International Journal Of Conservation Science, Volume 10, Issue 1, January-March 2019, 139-146.
6. **Alexandra Dana Chitimus**, Florin Marian Nedeff, Ion Sandu, Cristian Radu, Emilian Mosnegutu, Narcis Barsan, Ioan Gabriel Sandu, Claudia Tomozei, Absorption Capacity of Copper and Lead in the Case of Phragmites Australis Plant Species, REV.CHIM.(Bucharest), vol. 70, nr. 11, 2019, p. 4035-4039.
7. **Alexandra Dana Chitimus**, Valentin Nedeff, Ion Sandu, Cristian Radu, Emilian Mosnegutu, Ioan Gabriel Sandu, Narcis Barsan, Absorption capacity of heavy metals in the case of Typha Latifolia plant species, REV.CHIM.(Bucharest), vol. 70, nr. 8, 2019, p. 3058-3061.
8. **Alexandra Dana Chitimus**, Valentin Nedeff, Ion Sandu, Cristian Radu, Emilian Mosnegutu, Ioan Gabriel Sandu, Narcis Barsan, Mathematical Modeling for the Absorption Capacity of Heavy Metals from the Soil in the Case of Phragmites Australis Plant Species, REV.CHIM.(Bucharest), vol. 70, nr. 7, 2019, p. 2545-2551.
9. Muscalu (Pleşcan), O.M., Nedeff, V., **Chițimuș, A.D.**, Partal, E., Bârsan, N., Rusu, I.D., Ioan Gabriel Sandu, Influence of soil fertilization systems and crop rotation on chemical properties of the soil, Revista de Chimie, vol.70, nr. 2, 2019, pg. 536-542, autor corespondent.
10. Emilian Moșneguțu, Valentin Nedeff, Cristina Carmen Stingu (Palici), **Dana Chițimuș**, Dragoș-Ioan Rusu, Ion Joita, Possibilities of software evaluation for the river course modification. Case study: Siret river in Bacau Region Sector, International Journal Of Conservation Science, Volume 10, Issue 2, Aprilie-June 2019, p. 371-380.
11. Alina Cochiorca, Narcis Barsan, Florin Marian Nedeff, Ion Sandu, Emilian Florin Mosnegutu, Mirela Panainte Lehadus, **Dana Chitimus**, Oana Irimia, Ioan Gabriel Sandu, Surface water quality assessment from a mining area case study, Groapa Burlacu lake, Targu Ocna, Romania, REV.CHIM.(Bucharest), vol. 70, nr. 10, 2019, p. 3678-3680.
12. Carolina Untila, Mihail Caraman, Valentin Nedeff, Narcis Barsan, Ion Sandu, **Alexandra Dana Chitimus**, Vasile Valentin Cretu, Claudia Tomozei, Andrei Victor Sandu, Evaluation of heavy metals and organic compounds in water samples collected from various sources from Republic of Moldova and Romania, REV.CHIM.(Bucharest), vol. 70, nr. 10, 2019, p. 3570-3574.
13. Narcis Barsan, **Dana Chitimus**, Florin Marian Nedeff, Ion Sandu, Mirela Panainte Lehadus, Andrei Victor Sandu, Oana Irimia Tartoaca, Experimental Application of a Laboratory SBR Plant Used for Domestic Wastewater Treatment, REV.CHIM.(Bucharest), vol. 70, nr. 11, 2019, p. 4098-4101, autor corespondent.
14. Laurențiu Tataru, Valentin Nedeff, Narcis Barsan, Emilian Mosnegutu, Mirela Panainte Lehadus, Ion Sandu, **Dana Chitimus**, Studies of humic acid removal from aqueous systems by using polymeric membrane ultrafiltration process, Revista de Materiale Plastice, 2018, vol. 55, no. 4, p. 660-685.

15. Barsan Narcis, Nedeff Valentin, Temea Antonina, Mosnegutu Emilian, **Chitimus Alexandra Dana**, Tomozei Claudia, A perspective for poor wastewater infrastructure regions: a small-scale sequencing batch reactor treatment system, Chemistry Journal of Moldova, 2017, vol. 12, nr. 1, pg. 61-66.
16. Mariana Turcu, Narcis Bârsan, Emilian Moşneguţu, Mihaela Dascălu, **Dana Chiţimuş**, Cristian Radu, Application of the flocculation process in the industrial wastewater treatment, Environmental Engineering & Management Journal (EEMJ), 2016, vol. 15, nr. 3, pg. 521-526.
17. Mihai-Cosmin Belciu, Emilian Florin Moşneguţu, Valentin Nedeff, **Alexandra-Dana Chiţimuş**, Narcis Barsan, Silvia Fiore, Production capacity of leachate from Bihor landfill, Environmental Engineering & Management Journal (EEMJ), 2016, vol. 15, nr. 9, p. 2057-2062.
18. Doina Capsa, Mirela Panainte, **Dana Chitimus**, Marius Stanila, Daniel-Catalin Felegeanu, Accidental pollution with ammonnia. Influence of meteorological factors, Environmental Engineering and Management Journal, vol. 13, nr. 7, 2014, p. 1573-1580.
19. Stanila Marius, Valentin Nedeff, Emilian Florin Mosnegutu, Mirela Panainte, **Alexandra-Dana Chitimus**, Optimization of a mixed cycle gas turbine Titan 130S type operating under partial loads, Environmental Engineering and Management Journal, vol.12, no.1, 2013, pg. 115-124.
20. Fabian, Florina, Nedeff, Valentin, Barsan Narcis, Panainte-Lehadus, Mirela, Mosnegutu Emilian, Cotirlet, Paul-Claudiu, **Chitimus Dana**, Tomozei Claudia, Irimia Oana, Estimating the carbon footprint in water treatment case study the treatment plants from Bacau Romania and Turin Italy, Fresenius Environmental Bulletin, vol. 30, nr. 10, 2021, p. 11361 – 11370.
21. Panainte-Lehadus Mirela, Nedeff Valentin, Barsan Narcis, Mosnegutu Emilian, Temea, Antonina, Tomozei Claudia, Irimia Oana, **Chitimus Dana**, Evaluation on consumer attitudes towards to the purchase of eco-labeled products, Fresenius Environmental Bulletin, vol. 30, nr. 5, 2021, p. 5521 – 5528.
22. Cochiorca Alina, Fiorucci Adriano, Nedeff Valentin, Barsan Narcis, Mosnegutu Emilian Florin, **Chitimus Dana**, Panainte-Lehadus Mirela, Water quality analysis from a mining area. Case study: Targu Ocna salt mine, Romania, Environmental Engineering and Management Journal, vol. 3, nr. 3, 2021.
23. Emilian Mosnegutu, Mirela Panainte-Lehadus, Valentin Nedeff, Claudia Tomozei, Narcis Barsan, **Dana Chitimus**, Marcin Jasinski, Extraction of mathematical correlations applied in the aerodynamic separation of solid particles, Processes, Vol.10, no .7, 1234.
24. Mirela Panainte-Lehadus, Mihai Vulpe, Valentin Nedeff, Emilian Mosnegutu, Grzegorz Przydatek, Claudia Tomozei, **Dana Chitimus**, Study on the method of household waste collection: case study, Applied Sciences, vol. 12, no .15, 7490, 2022.
25. Emilian Moşneguţu, Claudia Tomozei, Mirela Panainte-Lehăduş, **Dana Chiţimuş**, Oana Irimia, Geometric calculation of the influence of an oscillating sieve's actuation mechanism position on its motion, Processes, Volume 10, Issue 9, 1760, 2022.
26. Mohamed Abdelwaheb, Valentin Nedeff, Sonia Dridi-Dhaouadi, Emilian Moşneguţu, **Alexandra-Dana Chiţimuş** Assessment quality of agricultural soils from Tunisian Region-Kalaa Kebira Sousse to assessment of a Tunisian agricultural soil properties, Fresenius Environmental Bulletin, vol. 31, nr. 8, 2022.
27. Zaharia Andrei, Nedeff Valentin, Barsan Narcis, Panainte-Lehăduş Mirela, Mosnegutu Emilian, **Alexandra-Dana Chiţimuş**, Tomozei Claudia, Ultrafiltration technology application in the industrial wastewater treatment processes, Fresenius Environmental Bulletin, vol. 31, nr. 8B, 2022, p. 8742-8751.
28. Mariana Lupu, Valentin Nedeff, Mirela Panainte-Lehadus, Emilian Mosnegutu, Claudia Tomozei, **Dana Chitimus**, Dragos-Ioan Rusu, The Textural and Physical Characteristics of Red Radishes Based on a Puncture Test, Processes, 2024, 12, 282.

29. Mosnegutu E, Bibire L, Chitimus D, Panainte-Lehăduș M, Jasiński M, Przydatek G, Sporea N. Analysis of a Mechanism Used to Operate an Oscillating Separator. *Applied Sciences*. 2024; 14(13):5836.
30. Grzegorz Przydatek, Monika Golonka, Narcis Barsan, Emilian Mosnegutu, Alexandra-Dana Chitimus, Oana Irimia, Environmental and energy efficiency of a selected municipal wastewater treatment plant – a case study, *IOP Publishing, Engineering Research Express*, Volume 6, Number 3, 2024.
31. Bibire, L.; Chitimus, A.-D.; Ciubotariu, V. Design of Mixing Device Shafts Based on a Proposed Calculation Method Supported by Finite Element Method Analysis. *Machines* 2024, 12, 479.
32. Bogdan, P.-L.; Nedeff, V.; Panainte-Lehadus, M.; Chitimus, D.; Barsan, N.; Nedeff, F.M. Delineation of Groundwater Potential Zones Using Geospatial Techniques. Case Study: Roman City and the Surrounding Area in the Northeastern Region, Romania. *Water* 2024, 16, 3013.
33. Irimia, O.; Tomozei, C.; Panainte-Lehadus, M.; Chitimus, D.; Nedeff, F.; Barsan, N.; Mosnegutu, E.; Mirila, D. Understanding Primary School Students' Knowledge and Attitudes Towards Water Management: Insights from Environmental Education. *Societies* 2025, 15, 109.
34. Mosnegutu, E.; Przydatek, G.; Chitimus, D.; Placintă, C.; Barsan, N.; Tomozei, C.; Nedeff, F.; Sporea, N. Study on the Public Information Level About the Waste Management System. *Urban Sci.* 2025, 9, 148.

ARTICOLE PUBLICATE ÎN PROCEEDINGS INDEXATE ISI

1. Moșnegutu Emilian, Nedeff Valentin, Panainte- Lehăduș Mirela, Bontaș Ovidiu, Barsan Narcis, Tomozei Claudia, **Chițimus Dana**, Studies and research concerning the displacement of solid particle on an oscillatory flat surface, *Applied Mechanics and Materials*, vol. 659, 2014, pp. 521-526.
2. Mirela Panainte-Lehadus, Valentin Nedeff, Emilian Mosnegutu, Gabriel Lazar, Iuliana Caraman, Claudia Tomozei, **Dana Chitimus**, Narcis Barsan, Study regarding public perception on environmental issues relating to Romania, International conference on production research - regional conference Africa, Europe and the Middle East and 3rd International conference on quality and innovation in engineering and management, 2014, p 393-396.
3. Emilian Mosnegutu, Valentin Nedeff, Ovidiu Bontas, Narcis Barsan, **Dana Chitimus**, Dragoș Rusu, Determination of kinematic indices corresponding to a solid particle on a flat oscillating surface, *IOP Conf. Series: Materials Science and Engineering* 147 (2016) 012151 doi:10.1088/1757-899X/147/1/012151, 2016, 147.
4. Narcis Barsan, Valentin Nedeff, **Dana Chitimus**, Emilian Mosnegutu, Florina Fabian, Increasing the wastewater treatment capacity of small Sequencing Batch Reactor treatment plants using sequential operation, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, no. 17, p. 523-530.
5. **Chitimus Alexandra Dana**, Barsan Narcis, Nedeff Valentin, Mosnegutu Emilian, Muscalu Plescan Oana, Studies and research concerning the influence of liquid pollutants' leaching speed in the soil on the process of cleaning and self-cleaning, Multidisciplinary Scientific GeoConference SGEM 2017, no. 17, p. 859-866.
6. **Chitimus Alexandra Dana**, Cochiorca Alina, Nedeff Valentin, Barsan Narcis, Muscalu Plescan Oana, Studies and research on Phragmites Australis' (common reed) absorption capacity of heavy metals from the soil in Roman City, Proceeding of the International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 18, 2018, p. 671-678, DOI: 10.5593/sgem2018/3.1/S12.087.
7. **Alexandra-Dana Chitimus**, Narcis Barsan, Emilian-Florin Mosnegutu, Corobana Alina, Valentin Nedeff, Muscalu (Plescan) Oana-Maria), Partal, Elena, Influence of Soil Fertilization Systems and Crop Rotation on Physical and Chemical Properties of

- the Soil, 7th International Conference on Energy Efficiency and Agricultural Engineering (EE and AE), NOV 12-14, 2020, 781728103617.
8. Emilian-Florin Mosnegutu, **Alexandra-Dana Chitimus**, Narcis Barsan, Rusu Dragos, Vulpe Mihai, Valentin Nedeff, Marcin Jasiński, Studies and Researches Regarding the Influence of the Size of Solid Particles Forming a Heterogenous Mix on the Aerodynamic Separation Process, 7th International Conference on Energy Efficiency and Agricultural Engineering (EE and AE), NOV 12-14, 2020, 781728103617.
 9. Narcis Barsan, Zaharia Andrei, **Dana Chitimus**, Emilian Mosnegutu, Florin Nedeff, Rusu Dragos, Untila Carolina, Capsa Doina, Filtration Theory and Techniques. A Short Review on the Filtration Process, 7th International Conference on Energy Efficiency and Agricultural Engineering (EE and AE), NOV 12-14, 2020, 781728103617.
 10. Bogdan Petrut-Liviu, Nedeff Valentin, Barsan Narcis, Panainte-Lehadus Mirela, **Chitimus Dana**, Nedeff Florin, Tomozei, Claudia, Applications of the GIS and Remote Sensing methods in the Land use and cover maps. Case study: Roman city and the surroundings of the Northern side area, 2022 8th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2022 - Proceedings, Code 181234, p. 1-5.
 11. Ioja Iosif, Tomozei Claudia, Nedeff Valentin, Mosnegutu Emilian, Panainte-Lehadus Mirela, Irimia Oana, Barsan Narcis, **Chitimus Dana**, Studies and research on the possibilities of implementing ergonomic principles in increasing labor productivity, 2022 8th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2022 – Proceedings, Code 181234.
 12. C. Tomozei, Dana Chitimus et al., "Study of the Noise Level in an Ice Cream Factory Working Environment," 2024 9th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE), Ruse, Bulgaria, 2024, pp. 1-5, doi: 10.1109/EEAE60309.2024.10600574.
 13. Andrei Zaharia, Valentin Nedeff, Nicolata Frunza, Florin Nedeff, Narcis Barsan, Dana Chitimus, Some practical approaches of the poultry slaughter wastewater treatment by apply physico-chemical treatment, BIO Web of Conferences, vol. 122, art. no. 01022, 2024

ARTICOLE PUBLICATE ÎN REVISTE INDEXATE BDI

1. **Chițimuş Alexandra-Dana**, Nedeff Valentin, Lazăr Gabriel, Măcărescu Bogdan, Moşneguţu Emilian, 2011, Theoretical studies concerning the influence of physical and mechanical properties of the soil in the process of epuration and auto-epuration, Journal of Engineering Studies and Research, vol. 17, no. 1, ISSN 2068-7559, p. 13-20.
2. **Chițimuş Alexandra-Dana**, Nedeff Valentin, Lazăr Gabriel, 2011, Actual stage in the soil remediation, Journal of Engineering Studies and Research, vol. 17, no. 4, p. 24-31.
3. Mosnegutu Emilian, Nedeff Valentin, Bontas, Ovidiu, Bârsan Narcis, **Chitimus Dana**, The study to obtaining the trajectories of solid particles on an oscillatory flat surface, Proceedings of the 5th International Conference on Advanced Concepts in Mechanical Engineering ACME 2012, ISBN 2285-2301, June 2012, 14 -15, p. 1-8.
4. Cristian Radu, Valentin Nedeff, **Alexandra-Dana Chitimus**, Theoretical studies concerning residual soil pollution by heavy metals, Journal of Engineering Studies and Research, vol. 19, no. 2, 2013 , p. 89 – 96.
5. Mihai Belciu, Valentin Nedeff, **Alexandra-Dana Chitimus**, Cristian Radu, Theoretical studies on liquid pollutants' transport in the soil and in the aquifer, Journal of Engineering Studies and Research, vol. 20, no. 1, 2014 , p. 23 – 32.
6. Jessica Alcaraz, Marine Ridoire, Mirela Panainte-Lehăduş, Mariana Turcu, Narcis Bârsan, **Dana Chițimuş**, Oana Irimia, Application of the flocculation process for the municipal sewage sludge treatment, Journal of Engineering Studies and Research, vol.

20, no. 2, 2014, p. 7-13.

7. Emilian Moşneguţu, Valentin Nedeff, Ovidiu Bontaş, Narcis Bârsan, **Dana Chiţimuş**, Possibilities to determining the solid particle trajectories on an oscillating separation screen, Journal of Engineering Studies and Research, vol. 20, no. 3, 2014, p. 63-69.
8. Mădălin-Ionuţ Rotaru, Valentin Nedeff, **Alexandra-Dana Chiţimuş**, Emilian Florin Moşneguţu, Narcis Bârsan, Study regarding the identification of the water pollution sources and factors on the siret river in the Bacau-Marasesti span, Journal of Engineering Studies and Research, vol. 21, no. 1, 2015, p. 78-86.
9. Holy Holenu Mangenda, Valentin Nedeff, Narcis Barsan, Emilian Florin Moşneguţu, **Dana Chitimus**, Dragos Rusu, Aspects regarding the KInshasa urban landfills assessment and proposals for sustainable development, Journal of Engineering Studies and Research, vol. 21, no. 1, 2015, p. 46-54.
10. Mihaela-Elena Dascalu, Emilian Mosnegutu, Valentin Nedeff, **Alexandra-Dana Chitimus**, Narcis Bârsan, Studies concerning the behavior of the suspended solids in the mixing process, Journal of Engineering Studies and Research, vol. 21, no. 4, 2015, p. 21-27.
11. Emilian Mosnegutu, Valentin Nedeff, Narcis Bârsan, **Alexandra-Dana Chitimus**, Dragos Rusu, Influence of screening block supporting way on the behaviour of a solid particle on an oscillating surface, Journal of Engineering Studies and Research, vol. 21, no. 3, 2015, p. 51-58.
12. Laurenţiu Tataru, Valentin Nedeff, Narcis Barsan, Mirela Panainte-Lehadus, Emilian Mosnegutu, **Dana-Alexandra Chitimus**, Studies on the application of hollow fiber membranes in the field of ultrafiltration, Journal of Engineering Studies and Research, vol. 22, no. 4, 2016, p. 42-53.
13. Doina Capşa, Narcis Bârsan, Valentin Nedeff, Emilian Moşneguţu, **Dana Chiţimuş**, Evaluation of the ammonia air pollution and climatic factors interactions, case study 2008 Bacau City Romania, Journal of Engineering Studies and Research, vol. 22, no. 1, 2016, p. 24-31.
14. Mihai-Cosmin Belciu, **Alexandra-Dana Chitimus**, Valentin Nedeff, Narcis Bârsan, Rusu Dragos, The production capacity of leachate collected from Piatra Neamt landfill, Journal of Engineering Studies and Research, vol. 22, no. 1, 2016, p. 15-23.
15. Emilian Mosnegutu, Valentin Nedeff, Mirela Panainte-Lehadus, Narcis Bârsan, **Dana Chitimus**, Dragos Rusu, Determination of the real values of kinematic index corresponding to the mechanical separation process, Journal of Engineering Studies and Research, vol. 22, no. 2, 2016, p. 39-48.
16. Laurenţiu Tătaru, Valentin Nedeff, Narcis Bârsan, Mirela-Panainte Lehaduş, **Dana-Alexandra Chiţimuş**, The importance of using membranes in seawater, desalination as a result of excessive exploitation of, water sources, The Annals of "Dunarea De Jos" University of Galati, Fascicle ix. Metallurgy and Materials Science, no. 3, 2017, p. 39-46.
17. Narcis Barsan, Mariana Turcu, Valentin Nedeff, Emilian, Mosnegutu, **Dana Chitimus**, Laboratory applications in wastewater treatment by using flocculation process, Journal of Engineering Studies and Research, vol. 23, no. 3, 2017, p. 7-11.
18. Doina Capsa, Valentin Nedeff, Narcis Barsan, Emilian Mosnegutu, **Dana Chitimus**, Evaluation of meteorological factors influence on benzene accidental pollution. Case study: bacau city 2008, Journal of Engineering Studies and Research, vol. 23, no. 1, 2017, p. 12-19.

19. Laurentiu Tataru, Valentin Nedeff, Narcis Barsan, Mirela Panainte-Lehadus, Emilian Mosnegutu, **Dana Chitimus**, Florina Fabian, A comparative study between water-gap and air-gap distillation membranes for removal of salts from saline water by desalination method, Journal of Engineering Studies and Research, vol. 24, no. 2, 2018, p. 46-57.
20. Mariana Turcu, Narcis Barsan, Dan Ianculescu, Valentin Nedeff, **Dana Chitimus**, Panainte-Lehadus Mirela, Emilian Mosnegutu, Organic flocculants applications in the treatment of municipal sludge, ROMAQUA, vol. 146, no. 8, 2020, p. 29-35.
21. Emilian-Florin Mosnegutu, Narcis Barsan, **Alexandra-Dana Chitimus**, Tomozei Claudia, Mihail Ristea, Experimental evaluation of the solid particles behavior in a vertical air flow by using imaging analysis, Journal of Engineering Studies and Research, 2068-7559, Vol. 26, nr. 4, 2020, pg. 61-68.
22. Emilian-Florin Mosnegutu, Valentin Nedeff, **Alexandra-Dana Chitimus**, Marcin Jasiński, Narcis Barsan, Solid particle characterization. some aspect related to the shape evaluation by using software correlations, Journal of Engineering Studies and Research, 2068-7559, Vol. 27, nr. 1, 2021, pg. 64-74.
23. Emilian Mosnegutu, Narcis Barsan, Mirela Panainte-Lehadus, **Dana Chitimus**, Claudia Tomozei, Influence of the crank mechanism position in the motion of an oscillating sieve, Journal of Engineering Studies and Research, Vol. 27, nr. 4, 2021, pg. 36-43.
24. Mohamed Abdelwaheb, Valentin Nedeff, Sonia Dridi-Dhaouadi, Emilian Moşneguţu, **Alexandra-Dana Chitimus**, The study of a tunisian soil using scanning electronic microscope, Journal of Engineering Studies and Research, Vol. 28, nr. 1, 2022, pg. 7-12.

ARTICOLE PUBLICATE ÎN VOLUMELE UNOR CONFERINTE INTERNATIONALE

1. Valentin Nedeff, Cristian Radu, **Chiţimuş, Alexandra-Dana**, Moşneguţu Emilian, Narcis Bârsan, Studies and research on phragmites australis' (common reed) absorption capacity of heavy metals, Sixth International Conference On Energy Efficiency and Agricultural Engineering November 11-12, 2015 Ruse, Bulgaria ISSN 1311-9974, 2015, vol. 6, pp. 18-28.
2. Mihai-Cosmin Belciu, Valentin Nedeff, **Alexandra-Dana Chiţimuş**, Emilian Florin Moşneguţu, Narcis Bârsan, Analyse of waste management aspects from Romanian landfills, Sixth International Conference On Energy Efficiency and Agricultural Engineering November 11-12, 2015 Ruse, Bulgaria ISSN 1311-9974, 2015, vol. 6, pp. 693-700.
3. Mădălin Rotaru, **Alexandra-Dana Chiţimuş**, Valentin Nedeff, Emilian Moşneguţu, Narcis Bârsan, Mathematical modelling of the leaching speed of pollutants in the soil Sixth International Conference On Energy Efficiency and Agricultural Engineering November 11-12, 2015 Ruse, Bulgaria ISSN 1311-9974, 2015, vol. 6, pp. 669-678.
4. Emilian Mosnegutu, Valentin Nedeff, Mirela Panainte, Narcis Barsan, **Dana Chitimus**, Dragos Rusu, Ovidiu Bontas, The influence of the inclination angle of working surface over behavior of a solid particles on a fla surace oscillang, Sixth International Conference On Energy Efficiency and Agricultural Engineering November 11-12, 2015 Ruse, Bulgaria ISSN 1311-9974, 2015, vol. 6, pp. 609-619.
5. Doina Capsa, Valentin Nedeff, Narcis Barsan, Emilian Mosnegutu, **Dana Chitimus**, Mihai Vulpe, Theoretical correlations between air quality and climatic factors Sixth International Conference On Energy Efficiency and Agricultural Engineering November 11-12, 2015 Ruse, Bulgaria ISSN 1311-9974, 2015, vol. 6, pp. 684-692.

6. Narcis Barsan, Valentin Nedeff, Emilian Moşneguţu, **Dana Chitimus**, Mariana Turcu, Aspects regarding to the municipal wastewater treatment in small plant during cold period, Sixth International Conference On Energy Efficiency and Agricultural Engineering November 11-12, 2015 Ruse, Bulgaria ISSN 1311-9974, 2015, vol. 6, pp. 709-718.
7. Raducanu (Manea) Dumitra, Nedeff Valentin, Barsan Narcis, **Chitimus Alexandra Dana**, Mosnegutu Emilian Florin, Theoretical studies regarding to disposal and utilization of the sewage sludge from municipal wastewater treatment plants, Proceedings of the Union of Scientist, Fifth Conferince, Energy efficiency and agricultural engineering, Ruse, Bulgaria, 2013, p. 356-369, ISSN 1311-9974.
8. Belciu Mihai, Valentin Nedeff, **Chiţimuş Alexandra Dana**, Emilian Moşneguţu, Bârsan Narcis, The current stage of ex situ technologies for soil depollution by means of physical and thermal procedures, Proceedings of the Union of Scientist, Fifth Conferince, Energy efficiency and agricultural engineering, Ruse, Bulgaria, 2013, p. 9-21, ISSN 1311-9974.
9. **Chiţimuş Alexandra-Dana**, Nedeff Valentin, Lazăr Gabriel, Studies and researches on the influence of soil penetration resistance concerning forced circulation of air in soil, Proceedings oh the Scientific Student Session – SSS'11, Universitatea „Angel Kanchev”, Ruse, Bulgaria, 2011, p. 36-42, ISSN1311-3321.
10. **Alexandra-Dana Chitimus**, Florin-Marian Nedeff, Ion Sandu, Cristian Radu, Emilian Mosnegutu, Ioan Gabriel Sandu, Influence of Bacau city's antropic activities on the heavy metals concentration measured on Bistrita and Siret river sides, REV.CHIM.(Bucharest), vol. 71, nr. 1, 2020, p. 350-354.
11. Narcis Barsan, **Alexandra Dana Chitimus**, Oana-Maria Muscalu (Plescan), Florin Marian Nedeff, Ion Sandu, Elena Partal, Andrei Victor Sandu, Mirela Panainte Lehadus, Influence of fertilizers on soils used for oleaginous crop, REV.CHIM.(Bucharest), vol. 71, nr. 1, 2020, p. 233-238, autor corespondent.
12. **Alexandra-Dana Chitimus**, Florin Marian Nedeff, Ion Sandu, Cristian Radu, Narcis Barsan, Ioan Gabriel Sandu, Oana Irimia, Mathematical modeling for the accumulation of cadmium, zinc and arsenic from the soil in the case of Bulrush Plant type, REV.CHIM.(Bucharest), vol. 70, nr. 12, 2019, p. 4566-4573.
13. Narcis Barsan, Doina Capsa, Emilian Moşnegutu, Valentin Nedeff, Ion Sandu, **Alexandra Dana Chitimus**, Claudia Tomozei, Andrei Victor Sandu, Correlations on the air nitrogen oxides pollutant concentration and climatic factors variations in Bacau city, REV.CHIM.(Bucharest), vol. 71, nr. 2, 2020, p. 358-364, autor corespondent.
14. Emilian-Florin Mosnegutu, Valentin Nedeff, Narcis Barsan, Ion Sandu, Mirela Panainte-Lehadus, **Dana Chitimus**, Ion Gabriel Sandu, Ovidiu Bontas, Dragos-Ioan Rusu, Gheorghe Topan, Application in process industry of the solid particles displacement on a flat oscillating surface, REV.CHIM.(Bucharest), vol. 71, nr. 6, 2020, p. 42- 50, autor corespondent.
15. Alina Cochiorca, Valentin Nedeff, Narcis Barsan, Ion Sandu, Emilian Mosnegutu, **Dana Alexandra Chitimus**, Andrei Victor Sandu, Oana Irimia, Surface water and groundwater quality evaluation in a mining area, REV.CHIM.(Bucharest), vol. 71, nr. 6, 2020, p. 136-143.
16. Mirela Panainte-Lehadus, Emilian-Florin Mosnegutu, Valentin Nedeff, Narcis Barsan, **Dana Chitimus**, Dragos-Ioan Rusu, Mihai C. Nicolescu, Gheorghe Topan, Experimental application of the process industry solid particle's displacement in a vertical air flow, REV.CHIM.(Bucharest), vol. 71, nr. 6, 2020, p. 9-21.
17. **Alexandra-Dana Chitimus**, Florin Marian Nedeff, Ion Sandu, Cristian Radu, Narcis Barsan, Ioan Gabriel Sandu, Oana Irimia, Mathematical modeling for the accumulation of cadmium, zinc and arsenic from the soil in the case of Bulrush Plant type, REV.CHIM.(Bucharest), vol. 70, nr. 12, 2019, p. 4566-4573.

18. Narcis Barsan, **Dana Chitimus**, Florin Marian Nedeff, Ion Sandu, Emilian Mosnegutu, Andrei Victor Sandu, Claudia Tomozei, Mathematical correlations of the variable parameters specific for an SBR experimental laboratory plant, REV.CHIM.(Bucharest), vol. 70, nr. 12, 2019, p. 4574-4578.

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