

LISTA LUCRĂRILOR PUBLICATE

Conf. univ. dr. ing. **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.
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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

Susținută la data de 18.10.2011

Confirmată în baza ordinului 6697 din 21.12.2011

CĂRTI ȘI CAPITOLE DIN CĂRTI

1. **Chițimuş 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.
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5. Bârsan Narcis, Nedeff Valentin, Irimia Oana, Mirela Panainte-Lehadus, Emilian Mosnegutu, **Dana Chițimuş**, 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 Chițimuş**, 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.
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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.

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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.
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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.
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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.
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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.
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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.
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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.

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1. Moşnegutu Emilian, Nedeff Valentin, Panainte- Lehăduş Mirela, Bontaş Ovidiu, Barsan Narcis, Tomozei Claudia, **Chiţimuş 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**, Dragoş 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.
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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.

ARTICOLE PUBLICATE ÎN REVISTE INDEXATE BDI

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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, **Chitimuş 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 Chitimuş**, Theoretical studies concerning residual soil pollution by heavy metals, Journal of Engineering Studies and Research, vol. 19, no. 2, 2013 , p. 89 – 96.
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9. Holy Holenu Mangenda, Valentin Nedeff, Narcis Barsan, Emilian Florin Moşneguțu, **Dana Chitimuş**, 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 Chitimuş**, 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 Chitimuş**, 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. Laurențiu Tataru, Valentin Nedeff, Narcis Barsan, Mirela Panainte-Lehadus, Emilian Mosnegutu, **Dana-Alexandra Chitimuş**, 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 Capșa, Narcis Bârsan, Valentin Nedeff, Emilian Moşneguțu, **Dana Chițimuş**, 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.

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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. Laurențiu Tătaru, Valentin Nedeff, Narcis Bârsan, Mirela-Panainte Lehăduș, **Dana-Alexandra Chițimuş**, 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.
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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, **Chițimuş, Alexandra-Dana**, Moşneguțu 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 Chițimuş**, Emilian Florin Moşneguțu, 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.
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