

LISTA LUCRĂRILOR PUBLICATE

Conf. univ. dr. ing. Alexandra-Dana Chițimuş

LISTA CELOR 10 LUCRĂRI RELEVANTE

1. **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.
2. 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.
3. **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.
4. **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.
5. **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.
6. **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.
7. Muscalu (Pleşcan), O.M., Nedeff, V., Chițimuş, 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.
8. 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. 3106-3111, autor corespondent.
9. **Alexandra-Dana Chițimuş**, 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.
10. **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

TEZA DE DOCTORAT

DOMENIUL INGINERIE MECANICĂ

Studii și cercetări privind posibilitățile de influența proprietăților fizice și mecanice ale solului în procesul de epurare și autoepurare

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CĂRTI ȘI CAPITOLE DIN CĂRTI

1. **Chițimuş Alexandra-Dana**, Nedeff Valentin, Moşneguțu Emilian, Lazăr Gabriel, Tehnologii pentru depoluarea solului, Carte Științifică, Editura Alma Mater Bacău, ISBN 978-606-527-218-7, 2012.
2. **Chițimuş Alexandra-Dana**, Nedeff Valentin, Moşneguțu Emilian, Panainte Lehăduş 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
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4. Bibire Luminita, **Chițimuş 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 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.
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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. 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.
3. 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 displace-

- ment on a flat oscillating surface, REV.CHIM.(Bucharest), vol. 71, nr. 6, 2020, p. 42-50, autor corespondent.
4. 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.
 5. 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.
 6. 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.
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 8. 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, autor corespondent.
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 14. 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.

15. 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.
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17. 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.
18. 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.
19. 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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21. Cristian Radu, **Alexandra-Dana Chiţimuş**, 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, autor corespondent.
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23. 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.

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1. Moşnegutu Emilian, Nedeff Valentin, Panainte- Lehaduş 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.

ARTICOLE PUBLICATE ÎN REVISTE INDEXATE BDI

1. **Chițimuş Alexandra-Dana**, Nedeff Valentin, Lazăr Gabriel, Măcărescu Bogdan, Moşneguțu 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.
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8. Mădălin-Ionuț Rotaru, Valentin Nedeff, **Alexandra-Dana Chițimuş**, Emilian Florin Moşneguțu, 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.
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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 Lehăduş, **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.

**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.
3. Mădălin Rotaru, **Alexandra-Dana Chițimuş**, Valentin Nedeff, Emilian Moşneguțu, 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 Moşneguțu, **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, **Chițimuş Alexandra Dana**, Emilian Moşneguțu, 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. **Chițimuş 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.