

LISTA LUCRĂRILOR PUBLICATE

Prof. univ. dr. ing. habil. Emilian Florin Mosnegutu

TEZA DE DOCTORAT

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BREVETE DE INVENȚIE ȘI ALTE TIPURI DE PROPRIETĂȚI INDUSTRIALE

CĂRTI ȘI CAPITOLE DIN CĂRTI

1. Valentin Nedeff, Ionel Crinel Raveica, Emilian Mosnegutu, Masini si instalatii pentru protectia factorilor de mediu si prelucrarea si valorificarea deseurilor : note de curs , Bacau: Editura Universitatii din Bacau, 1999
2. Nedeff Valentin, Mosnegutu Emilian și Băisan Ioan – Separarea mecanică a produselor granulometrice și pulverulente din industria alimentară, Ed. TEHNICA-INFO, Chișinău, 2001;
3. Măcărescu Constantin, Nedeff Valentin, Panainte Mirela și Mosnegutu Emilian – Legislație, reglementări și standarde de protecția mediului, Universitatea din Bacău, 2003;
4. Panainte Mirela, Mosnegutu Emilian, Savin Carmen, Nedeff Valentin (coordonator) – Mărunțirea produselor agroalimentare, Ed. Meronia ISBN 973-8200-88-1, Ed. Rovimed Publishers ISBN 973-7719-39-5, Bacău, 2005;
5. Măcărescu Bogdan, Nedeff Valentin, Panainte Mirela și Moșneguțu Emilian – Legislație. Reglementări și standarde de protecția mediului, vol. I și II, Ed. Performantica, Iași, ISBN 973-730-212-5, 2006;
6. Savin Carmen, Panainte Mirela, Mosnegutu Emilian și Nedeff Valentin (coordonator) – Amestecarea produselor agroalimentare, Ed. Tehnopress, Iași, 2006, ISBN (10) 973-702-397-8; ISBN (13) 987-973-702-397-1;
7. Mosnegutu Emilian, Panainte Mirela, Savin Carmen, Măcărescu Bogdan și Nedeff Valentin (coordonator) – Separarea amestecurilor de particule solide în curenți de aer verticali, Ed. Alma Mater Bacău, Bacău, 2007, ISBN 978-973-1833-57-6;
8. Mosnegutu Emilian – Gestionarea deșeurilor. Note de curs, Ed. ALMA MATER, Bacău, 2007;
9. Mirela Panainte, Valentin Nedeff, Bogdan Macarescu, Emilian Mosnegutu, Auditul de mediu : Note de curs ; Caiet de seminar , Bacau: Editura Alma Mater, 2007
10. Mirela Panainte, Nedeff Valentin, Bogdan Măcărescu, Mosnegutu Emilian - Bazele ingineriei mediului. Note de curs. Îndrumar de laborator, Ed. ALMA MATER, Bacău, 2007;
11. Panainte, Mirela; Nedeff, Valentin; Macarescu, Bogdan Constantin; Moșneguțu, Emilian, Studiul impactului ecologic : Note de curs ; Indrumar de laborator ; Indrumar de proiect , Bacau: Editura Alma Mater, 2007
12. Nedeff Valentin, Panainte Mirela, Mosnegutu Emilian - ErgonomiE. Seminar, Ed. ALMA MATER, Bacău, 2007;
13. Bârsan Narcis, Mosnegutu Emilian, Lazăr Gabriel și Nedeff Valentin – Procedee și tehnici pentru protecția mediului. Epurarea apelor uzate menajere în stații de epurare de capacitate mică, Ed. ALMA MATER Bacău, 2012.
14. Chitimus Alexandra-Dana, Nedeff Valentin, Mosnegutu Emilian, Lazar Gabriel, Tehnologii pentru depoluarea solului, Editura ALMA MATER BACAU, ISBN 978-606-527-218-7, 2012, pg. 214;
15. Chitimus Alexandra-Dana, Nedeff Valentin (coordonator), Moșneguțu Emilian, Panainte-Lehadus Mirela, Tomozei Claudia, Irimia Oana, Bârsan Narcis, Nedeff Florin Marian, Proceduri de lucru pentru analiza solului și a altor materiale, vol. 1, Ed. Alma Mater Bacău, 2017;

16. Bârsan Narcis, Nedeff Valentin (coordonator), Chitimus Alexandra-Dana, Irimia Oana, Panainte-Lehadus Mirela, Moşneguţu Emilian, Tomozei Claudia, Proceduri de lucru pentru analiza calităţii apelor şi a altor compuşi lichizi, Ed. Alma Mater Bacău, 2018;
17. Tomozei Claudia, Mirela Panainte Lehaduș, Oana Irimia, Narcis Bârsan, Florin Marian Nedeff, Dana Alexandra Chiţimuş, Mosnegutu Emilian, coord. Nedeff Valentin - Proceduri de lucru pentru analiza calităţii aerului şi a altor compuşi gazoşi, Ed. Alma mater Bacau, 2018
18. Nedeff Valentin (coord.), Chiţimuş Dana, Tomozei Claudia, Bârsan Narcis, Panainte Lehadus, Oana Irimia, Mosnegutu Emilian, Florin Marian Nedeff, Proceduri de lucru pentru analiza solului şi a altor materiale, vol. 2, Alma Mater, 2018, ISBN 978-606-527-581-2, 978-606-527-583-6
19. Nedeff Valentin (coord.), Mosnegutu E. F., Nedeff Florin, Barsan Narcis, Chitimus Dana, Îndrumar de laborator, separarea, mărunţirea, amestecarea şi transportul produselor, Alma Mater, 2019, ISBN 978-606-527-635-2,

ARTICOLE / STUDII ÎN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL STIINȚIFIC INTERNATIONAL PRINCIPAL

A) articole publicate în reviste indexate ISI

- [1]. Nedeff, V., Raveica, C., Mosnegutu, E., Commiss Int Org Scientif Travail, A.G.R., Commiss Int Org Scientif Travail, A.G.R., The hanging agriculture and direct active mechanical energy consumption, Int Comm Work Studies & Labour Management Agr; Int Comm Agr Engr, Sect V, WORK SCIENCES IN SUSTAINABLE AGRICULTURE Pages: 384-389 1999, WOS:000083320100060
- [2]. Nedeff, V., Mosnegutu, E., Panainte, M., Savin, C., Macarescu, B., Study of a solid particle behaviour in a vertical ascending airflow, Revista De Chimie, vol. 58, no. 12, 2007, pp. 1285-1290, WOS:000252496200025
- [3]. Nedeff, V., Mosnegutu, E., Panainte, M., Savin, C., Macarescu, B., Researches concerning the aerodynamic sorting of solid particles according to the surface states, Revista De Chimie, vol. 59, no. 3, 2008, pp. 360-365, WOS:000255966000022
- [4]. Valentin, Nedeff; Valentin, Zichil; Savin, Carmen; Bogdan, Macarescu; Emilian, Mosnegutu, A new method to determinate the viscosity of the non-Newtonian mixtures, METALURGIA INTERNATIONAL, 2008, vol. 13, nr. 7, pag. 21-26, WOS:000256692000005
- [5]. Milenkovic, D., Dasic, P., Nedeff, V., Mosnegutu, E., Analysis of Regression Models of Maximal Adsorption on High-porosity adsorbents with and without ultrasound application, Revista De Chimie, vol. 60, no. 7, 2009, pp. 706-710, WOS:000269089200012
- [6]. Zichil, Valentin; Panainte, Mirela; Nedeff, Valentine; Mosnegutu, Emilian; Savin, Carmen; Macarescu, Bogdan; Olaru, Ciprian, Considerations about a new method able to determine the breaking up energy at materials with variable texture, METALURGIA INTERNATIONAL, 2009, vol. 14, nr. 6, pag. 15-20, WOS:000265002600003
- [7]. Panainte, Mirela; Nedeff, Valentin; Macarescu, Bogdan; Mosnegutu, Emilian; Tomozei, Claudia, Studies and research on the environmental impact of noise created by a work station for producing concrete, METALURGIA INTERNATIONAL, 2009, vol. 14, pag 73-76, WOS:000270962400015
- [8]. Panainte, Mirela; Valentin, Nedeff; Carol, Schnakovszky; Emilian, Mosnegutu, Theoretical study regarding the possibility to determination the grinding energy to products with variable texture, METALURGIA INTERNATIONAL, 2009, vol. 14, nr. 1, pag. 62-67, WOS:000263374100011
- [9]. Macarescu, B., Nedeff, V., Capat, C., Panainte, M., Mosnegutu, E., Savin, C., Studies and research regarding efficiency improvement of the district heating system and heat supply in an urban agglomeration in Romania. Study case for the chp plant in BACAU, Metalurgia International, vol. 15, no. 10, 2010, pp. 96-102, WOS:000278729300020
- [10]. Macarescu, B., Nedeff, V., Capat, C., Panainte, M., Mosnegutu, E., Savin, C., Studies and research regarding efficiency improvement of the district heating system and heat supply in an urban agglomeration in ROMANIA. Study case for the chp plant in BACAU, Metalurgia International, vol. 15, no. 11, 2010, pp. 123-129, WOS:000280440800024
- [11]. Barsan, N., Nedeff, V., Mosnegutu, E.F., Panainte, M., Heat balance components of a small sequencing batch reactor applied for municipal wastewater treatment, Environmental Engineering and Management Journal, vol. 11, no. 12, 2012, pp. 2133-2140, 10.30638/eemj.2012.265, WOS:000314169000003
- [12]. Chitimus, A.D., Nedeff, V., Mosnegutu, E.F., Panainte, M., In situ soil flushing - studies on remediation efficiency of polluted sandy soils with organic acids, Environmental Engineering and Management Journal, vol. 11, no. 12, 2012, pp. 2163-2168, 10.30638/eemj.2012.269, WOS:000314169000007

- [13]. Valentin Nedeff, Emilian Moşneguţu, Mirela Panainte, Mihail Ristea, Gabriel Lazăr, Dan Scurtu, Bogdan Ciobanu, Adrian Timofte, Ştefan Toma, Maricel Agop, Dynamics in the boundary layer of a flat particle, Powder Technology, vol. 221, May 2012, pag. 312–317, 10.1016/j.powtec.2012.01.019, WOS:000303222300040
- [14]. Turcu, M., Nedeff, V., Barsan, N., Mosnegutu, E.F., Panainte, M., Application of organic flocculants for the treatment of sludge from municipal wastewater treatment plants, Environmental Engineering and Management Journal, vol. 12, no. 1, 2013, pp. 163-166, 10.30638/eemj.2013.018, WOS:000317803300018
- [15]. Stanila, M.I., Nedeff, V., Chitimus, D., Panainte, M., Mosnegutu, E.F., Optimization of a Mixed Cycle Gas Turbine Titan 130s Type Operating under Partial Loads, Environmental Engineering and Management Journal, vol. 12, no. 1, 2013, pp. 115-124., 10.30638/eemj.2013.014, WOS:000317803300014
- [16]. Bontas, O., Nedeff, V., Mosnegutu, E.F., Panainte, M., Irimia, O.T., Behaviour of solid particles on a flat oscillating surface, Environmental Engineering and Management Journal, vol. 12, no. 1, 2013, pp. 17-22, 10.30638/eemj.2013.003, WOS:000317803300003
- [17]. Nedeff, V; Inglezakis, V; Lazar, I ; Panainte, M; Mosnegutu, E; Caraman, I; Lazar, G , Green products theme as learning subject, edulearn13: 5th international conference on education and new learning technologies, Edited by: Chova, LG; Martinez, AL; Torres, IC, Book Series: EDULEARN Proceedings, Pages: 3403-3408, Published: 2013, Document Type: Proceedings Paper, WOS:000346798303060
- [18]. Irimia, O.T., Tomozei, C., Panainte, M., Mosnegutu, E.F., Barsan, N., Efficiency of filters with different filtering materials: comparative study in water treatment, Environmental Engineering and Management Journal, vol. 12, no. 1, 2013, pp. 35-39, 10.30638/eemj.2013.005, WOS:000317803300005
- [19]. 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 3 Rd International Conference on Quality and Innovation in Engineering and Management 978-973-662-978-5, 2014, pp. 393-396, WOS:000346410700072
- [20]. Alexandra-Dana Chiţimuş, Emilian Florin Moşneguţu, Mihai C Nicolescu, Mariana Turcu, Mihai Belciu, Greta Ardeleanu, Mathematical modelling of water migration time in soil, Environmental Engineering and Management Journal, 1582-9596 2014, vol. 13, nr. 7, pp. 1581-1586, 10.30638/eemj.2014.175, WOS:000344577400005
- [21]. Mirela Panainte, Marius Stănilă, Emilian Moşneguţu, Oana Irimia, Doina Capşa, Florin Nedeff, Claudia Tomozei, Ion Joiţa, Gabriela Telibaşa - Monitoring emissions from large combustion plants, Environmental Engineering and Management Journal, 1582-9596 2014, vol. 13, nr. 7, pp. 1657-1663, WOS:000344577400013
- [22]. Mirela Panainte, Vassilis Inglezakis, Iuliana Caraman, Mihai C Nicolescu, Emilian Mosneguţu, Florin Nedeff - The evolution of eco-labeled products in Romania Environmental Engineering and Management Journal, 1582-9596 Volume 13, Issue 7, 2014, Pages 1665-1671, 10.30638/eemj.2014.184, WOS:000344577400014
- [23]. Valentin Nedeff, Gabriel Lazar, Maricel Agop, Emilian Mosnegutu, Mihail Ristea, Lăcrămioara Ochiuz, Lucian Eva, Cristina Popa - Non-linear behaviours in complex fluid dynamics via non-differentiability. Separation control of the solid components from, eterogeneous mixtures, Powder Technology, 0032-5910 Volume 269, January 01, 2015, Pages 452-460, 10.1016/j.powtec.2014.09.040, WOS:000347507100051
- [24]. Panainte-Lehăduş, M., Nedeff, V., Moşneguţu, E., Caraman, I., Bârsan, N., Production and distribution of green products in Romania, 15th International Multidisciplinary Scientific Geoconference and EXPO, SGEM 2015; Albena; Bulgaria; 18 June 2015 through 24 June 2015, ECOLOGY, ECONOMICS, EDUCATION AND LEGISLATION, VOL II, Volume 2, 2015, Pages 397-404, WOS:000370814500052
- [25]. Mosnegutu, E., Nedeff, V.a, Bontas, O.b, Barsan, N.a, Chitimus, D.a, Rusu, Determination of kinematic indices corresponding to a solid particle on a flat oscillating surface(Conference Paper)(Open Access), IOP Conference Series: Materials Science and Engineering, Volume 147, Issue 1, 2 September 2016, Article number 012151, 7th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2016; Iasi; Romania; 9 June 2016 through 10 June 2016; Code 123857, 10.1088/1757-899X/147/1/012151, WOS:000390720200151
- [26]. Panainte-Lehadus, , Olaru, C.a, Nedeff, V.a, Olaru, I.b, Mosnegutu, E., The study behavior of food materials with soft texture subjected to shredding by cutting(Conference Paper)(Open Access), IOP Conference Series: Materials Science and Engineering, Volume 147, Issue 1, 2 September 2016, Article number 012150, 7th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2016; Iasi; Romania; 9 June 2016 through 10 June 2016; Code 123857, 10.1088/1757-899X/147/1/012150, WOS:000390720200150
- [27]. Chitimus Alexandra-Dana, 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 and Research. Chemistry and Chemical Engineering, Biotechnology, Food Industry, 1582-540X 2016, vol. 17, no. 4, pp. 381 – 393
- [28]. Mariana Turcu, Narcis Bârsan, Emilian Moşneguţu, Mihaela Dascălu, Dana Chiţimuş, Cristian Radu, Application of the flocculation process in the industrial wastewater treatment, *Environmental Engineering and Management Journal*, 1582-9596 Volume 15, Issue 3, 1 April 2016, Pages 521-526, WOS:000376876400005
- [29]. Petrovici, A.M., Cueto, J.L., Gey, R., (...), Tomozei, C., Mosnegutu, E. , Optimization of some alternatives to noise barriers as noise mitigation measures on major roads in Europe. Case study of a highway in Spain 2016 *Environmental Engineering and Management Journal* 15(7), pp. 1617-1628, WOS:000384472000021
- [30]. Mihai-Cosmin Belciu, Emilian Florin Moşneguţu, Valentin Nedeff, Alexandra-Dana Chiţimuş, Narcis Barsan, Silvia Fiore - Production capacity of leachate from Bihor landfill *Environmental Engineering and Management Journal*, 1582-9596 2016, vol. 15, no. 3 pp. 2057-2062, WOS:000390326200019
- [31]. Barsan N., Nedeff V., Temea A., Mosnegutu E., Chitimus A.D., Tomozei C., A perspective for poor wastewater infrastructure regions: A small-scale sequencing batch reactor treatment system, *Chemistry Journal of Moldova*, Volume 12, Issue 1, 2017, Pages 61-66, dx.doi.org/10.19261/cjm.2017.387
- [32]. Cochiorca, A., Nedeff, V., Bârsan, N., Moşneguţu, E.F., Panainte-Lehăduş, M., Tomozei, C., Analysis of water quality for two rivers located near a mining area, *Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry*, Volume 19, Issue 4, 2018, Pages 455-463, WOS:000452211700009
- [33]. Dascălu, M.-E., López-Ramírez, J.A.b, Nedeff, V.a,c, Mosneguţu, E.a, Rusu, D., Application of excitation emission matrixes spectroscopy to study humic acids rejection with TiO₂ nanofiltration membrane with enlarged area, *Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry*, Volume 19, Issue 3, 2018, Pages 313-321, WOS:000444839800007
- [34]. 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)* vol. 69, No. 11, 2018, p. 3016-3111, WOS:000451931500031
- [35]. Tataru, L., Nedeff, V., Barsan, N., Mosnegutu, E.a, Lehadus, M.P., Sandu, I., Chitimus, D., Studies of humic acid removal from aqueous systems by using polymeric membrane ultrafiltration process, *Materiale Plastice*, Volume 55, December 2018, Pages 680-685, WOS:000454987400048
- [36]. Moşneguţu, E., Nedeff, V., Bârsan, Rusu, D. , The influence of air velocity on the behavior of a solid particle displacement in a vertical path, *Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry*, Volume 19, Issue 4, 2018, Pages 431-441, WOS:000452211700007
- [37]. Goldan, E., Nedeff, V., Sandu, I.G., Mosnegutu, E., Panainte, M., Study of greenhouse use of biohazard wastewater and manure compost, *Revista De Chimie*, vol. 70, no. 1, 2019, p. 169-173, WOS:000460428100037
- [38]. Mosnegutu, E.F., Nedeff, V., Chitimus, A.D., Rusu, D.I., Joita, I., Aspects regarding the Siret river direction-changing in the Bacau county region, Romania, *International Journal of Conservation Science*, vol. 10, no. 1, 2019, p. 131-138, WOS:000462542400012
- [39]. Tataru, L., Nedeff, V., Mosnegutu, E., Panainte-Lehadus, M., Chitimus, D.A., Exploitation of organic ultrafiltration membranes in the removal of peptone from wastewater, *Scientific Study and Research-Chemistry and Chemical Engineering Biotechnology Food Industry*, vol. 20, no. 1, 2019, p. 75-87, WOS:000462758300008
- [40]. Tataru, L., Nedeff, V., Barsan, N., Sandu, A.V., Mosnegutu, E., Panainte-Lehadus, M., Sandu, I., Applications of polymeric membranes ultrafiltration process on the retention of bentonite suspension, *Materiale Plastice*, vol. 56, no. 1, 2019, p. 97-102, WOS:000464604100020
- [41]. Goldan, E., Nedeff, V., Barsan, N., Mosnegutu, E., Sandu, A.V., Panainte, M., The effect of biochar mixed with compost on heavy metal concentrations in a greenhouse experiment and on *folsomia candida* and *eisenia andrei* in laboratory conditions, *Revista De Chimie*, vol. 70, no. 3, 2019, p. 809-813, WOS:000464911600014
- [42]. Dascalu, M.E., Nedeff, F., Mosnegutu, E., Sandu, I.G., Lopez-Ramirez, J.A., hydrodynamic surface evaluation of a polymeric reverse osmosis membrane using a crossflow cell, *Revista De Chimie*, vol. 70, no. 3, 2019, p. 866-870, WOS:000464911600024
- [43]. Fabian, F., Nedeff, V., Birsan, N., Mosnegutu, E., Energy and chemicals consumption evaluation in water treatment plant a comparative study between Bacau and Turin, *Revista De Chimie*, vol. 70, no. 3, 2019, p. 881-886, WOS:000464911600027
- [44]. Muscalu, O.M., Nedeff, V., Sandu, I.G., Partal, E., Mosnegutu, E., Barsan, N., Sandu, I., Rusu, D., Influence of main works systems on physical and chemical properties of the soil, *Revista De Chimie*, vol. 70,

no. 5, 2019, pp. 1726-1730, WOS:000470086400043

[45]. Emilian Moşneguţu, Valentin Nedeff, Cristina Carmen Stingu (Palici), Dana Chiţimuş, Dragoş-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, April-June 2019: pag. 371-380, WOS:000488882500016

[46]. Eblin, S.G., Anoh, K.A., Yao, A.B., Soro, N., Nedeff, V., Mosnegutu, E., Sandu, A.V., Mapping groundwater vulnerability to pollution in the region of adiake, southeast coastal of Cote D'ivoire: A Comparative Study of Three (3) Methods, International Journal of Conservation Science, vol. 10, no. 3, 2019, pp. 493-506, WOS:000488882700009

[47]. Lehadus, M.P., Nedeff, V., Barsan, N., Sandu, A.V., Mosnegutu, E., Tomozei, C., Irimia, O., Andrioai, G., Sandu, I., Monitoring the particulate matter (PM10) emissions from Bacau City termo-energetic industry, Revista De Chimie, vol. 70, no. 8, 2019, pp. 2869-2872, WOS:000489685600035

[48]. Nastuneac, V., Panainte-Lehadus, M., Mosnegutu, E.F., Gavrilas, S., Cioca, G., Munteanu, F.D., Removal of Cypermethrin from water by using fucus spiralis marine alga, International Journal of Environmental Research and Public Health, vol. 16, no. 19, 2019, 10.3390/ijerph16193663, 31569507, WOS:000494748600159

[49]. Cochiorca, A., Barsan, N., Nedeff, F.M., Sandu, I., Mosnegutu, E.F., Lehadus, M.P., Chitimus, D., Irimia, O., Sandu, I.G., Surface water quality assessment from a mining area case study, groapa Burlacu lake, Targu Ocna, Romania, Revista De Chimie, vol. 70, no. 10, 2019, pp. 3678-3680, WOS:000500795900049

[50]. Muscalu, O.M., Nedeff, F.M., Partal, E., Mosnegutu, E., Panainte-Lehadus, M., Irimia, O., Tomozei, C., Influence of Soil Fertilization Systems on Soil Characteristics for a Monoculture of Sunflower, Scientific Study and Research-Chemistry and Chemical Engineering Biotechnology Food Industry, vol. 20, no. 4, 2019, pp. 585-595, WOS:000502846500008

[51]. Chitimus, A.D., Nedeff, F.M., Sandu, I., Radu, C., Mosnegutu, E., Barsan, N., Sandu, I.G., Tomozei, C., Absorption capacity of copper and lead in the case of phragmites australis plant species, Revista De Chimie, vol. 70, no. 11, 2019, pp. 4035-4039, WOS:000503185300054

[52]. Elena Goldan, Valentin Nedeff, Ion Sandu, Narcis Barsan, Emilian Mosnegutu, Mirela Panainte, The use of biochar and compost mixtures as potential, organic fertilizers, REVISTA DE CHIMIE (Bucharest), 2537-5733, 2019, vol. 70, No. 6, p. 2192- 2197, WOS:000475860100063

[53]. 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, REVISTA DE CHIMIE (Bucharest), 2537-5733, 2019, vol. 70, No. 7, p. 2545-2551, WOS:000509920700046

[54]. Mihaela-Elena Dascălu, Florin Nedeff, Ion Sandu, Emilian Mosnegutu, Andrei Victor Sandu, Juan Antonio López-Ramírez, Mathematical Model Regarding the Application of the Excitation Emission Matrix Spectroscopy in Nanofiltration Process Using Humic Acid with a TiO2 Ceramic Membrane, MATERIALE PLASTICE, 2019, Vol. 56 no. 4, 2019, p. 995-1002, WOS:000509920700046

[55]. Laurentiu 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 MATERIALE PLASTICE, 2019, Vol. 56 no. 4, 2019, p. 986-994, WOS:000509920700045

[56]. Oana-Maria Muscalu (Plescan), Valentin Nedeff, Ioan Gabriel Sandu, Elena Partal, Emilian Mosnegutu, Narcis Barsan, Ion Sandu, Dragos Rusu, Influence of main works systems on physical and chemical, Properties of the Soil Revista de Chimie, 2019, 70, No. 5, p. 1726- 1730, WOS:000470086400043

[57]. 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, Revista de Chimie, 2019, vol. 70, No. 8, 2019, p. 3058-3061, WOS:000489685600076

[58]. Emilian Florin MOSNEGUTU, Mirela PANAINTE-LEHĂDUŞ, Florin NEDEFF, Oana TIRTOACA (IRIMIA), Claudia TOMOZEI, Waste management evaluation in the context of sustainable development. Case study Vasile Alecsandri University of Bacau, INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE, ISSN: 2067-533X, January-March 2020, 11, No. 1, p. 179-188, WOS:000520030000017

[59]. 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, 2020, 21 (2), pp. 271 – 278, WOS:000546789300012

[60]. Barsan, Narcis; Zaharia, Andrei; Chitimus, Dana; Mosnegutu, Emilian; 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&AE) 7th International Conference on Energy Efficiency and Agricultural

- Engineering (EE and AE), 2020, P34, WOS:000659299700017
- [61]. Chitimus, Alexandra-Dana; Barsan, Narcis; Mosnegutu, Emilian; Corobana, Alina; Nedeff, Valentin; 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&AE), 7th International Conference on Energy Efficiency and Agricultural Engineering (EE and AE), 2020, WOS:000659299700016
- [62]. Mosnegutu, Emilian; Chitimus, Alexandra-Dana; Barsan, Narcis; Rusu, Dragos; Vulpe, Mihai; Nedeff, Valentin; Jasinski, Marcin, 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&AE), 7th International Conference on Energy Efficiency and Agricultural Engineering (EE and AE), 2020, WOS:000659299700071
- [63]. Cochiorea, Alina, Fiorucci, Adriano, Nedeff, Valentin, Barsan, Narcis, Mosnegutu, Emilian Florin, Chițimus, Dana, Panainte-Lehadus, Mirela, Water quality analysis from a mining area. Case study: Targu Ocna salt mine, ROMANIA, Environmental Engineering & Management Journal (EEMJ). Mar 2021, Vol. 20 Issue 3, p355-360. 6p., WOS:000637746900004
- [64]. Chitimus Alexandra-Dana, Nedeff Valentin, Muscalu (Plescan) Oana, Mosnegutu Emilian, Barsan Narcis, Panainte-Lehadus Mirela, Tomozei Claudia, Influence of fertilization systems to the soil inorganic compounds. Case study: monocultures of cereals, leguminous and oleaginous, Global NEST Journal, 2021, vol 23, issue 2, pag. 275-279, WOS:000709770400014
- [65]. Panainte-Lehadus M.,Nedeffu V.,Barsan N.,Mosnegutu E.,Temea A.,Tomozei C.,Irimia O.,Chitimus D., Evaluation on consumer attitudes towards the purchase of eco-labeled products, Fresenius Environmental Bulletin, 2021, Volume 30, Issue 5, Pages 5521 – 5528, WOS:000658173700091
- [66]. Florina Fabian, Valentin Nedeff, Narcis Barsan, Mirela Panainte-Lehadus, Emilian Florin Mosnegutu1, Paul-Claudiu Cotirlet, Dana Chitimus, Claudia Tomozei, Oana Irimia - Estimating the carbon footprint in water treatment case study the treatment plants from BACAU ROMANIA and TURIN ITALY, Fresenius Environmental Bulletin, Volume 30– No. 10/2021 pages 11361-11370, WOS:000704955000039
- [67]. Vulpe, Mihai; Nedeff, Valentin; Lehadus, Mirela Panainte; Mosnegutu, Emilian Florin; Cotirlet, Paul Claudiu; Barsan, Narcis, Educational attainment implication in the waste problems perception a case study applied to romanian citizens, FRESENIUS ENVIRONMENTAL BULLETIN, 2021, vol. 30, nr. 6B, pag. 7639-7646, WOS:000670303700052
- [68]. Nikiema, M; Barsan, N; Maiga, Y; Somda, MK; Mosnegutu, E; Ouattara, CAT; Dianou, D; Traore, AS; Nedeff, V; Ouattara, AS,Optimization of biogas production from sewage sludge: impact of combination with bovine dung and leachate from municipal organic waste, SUSTAINABILITY, vol. 14, no. 8, 2022, 4380, 10.3390/su14084380, WOS:000787961900001
- [69]. Ghezali, K; Bentahar, N; Barsan, N; Nedeff, V; Mosnegutu, E, Potential of canna indica in vertical flow constructed wetlands for heavy metals and nitrogen removal from algiers refinery wastewater, SUSTAINABILITY vol. 14, no. 8, 2022, 4394, 10.3390/su14084394, WOS:000786356700001
- [70]. Goldan, E; Nedeff, V; Barsan, N; Culea, M; Tomozei, C; Panainte-Lehadus, M; Mosnegutu, E, Evaluation of the use of sewage sludge biochar as a soil amendment-a review, SUSTAINABILITY, vol. 14, no. 9, 2022, 5309, 10.3390/su14095309, WOS:000794497400001
- [71]. Emilian Mosnegutu,Mirela Panainte-Lehadus, Valentin Nedeff,Claudia Tomozei,Narcis Barsan,Dana Chitimus and Marcin Jasinski, Extraction of mathematical correlations applied in the aerodynamic separation of solid particles, Processes, vol. 10, no. 7, 2022, 1234, 10.3390/pr10071234, WOS:000832223400001
- [72]. Mohamed Abdelwaheb, Valentin Nedeff, Sonia Dridi-Dhaouadi, Emilian Florin Mosnegutu, Alexandra-Dana Chițimus, Assessment quality of agricultural soils from tunisian region-Kalaa Kebira sousse to assessment of a tunisian agricultural soil properties, Fresenius Environmental Bulletin, 2022, vol. 31, nr. 8, pag. 7767- 7771, WOS:000845078600035
- [73]. Dalila Belhout; Zahia Tigrine; Emilian Florin Mosnegutu; Ferhat Kamel Benabdelaziz, Management of reverse osmosis concentrate by solar distillation, Water Supply, vol. 22, no. 8, 2022, pp. 6490-6503, 10.2166/ws.2022.269, WOS:000847797600002
- [74]. Mirela Panainte-Lehadus; Mihai Vulpe; Valentin Nedeff; Emilian Mosnegutu; Grzegorz Przydatek; Claudia Tomozei; Dana Chitimus, Study Regarding the Household Waste Collection Method. Case Study, Applied Sciences, 2022, vol. 12, no. 15, 2022, 7490, 10.3390/app12157490, WOS:000838899700001
- [75]. Mirela Panainte-Lehăduș, Emilian Moșneguțu, Narcis Bârsan , Gabriela Andrioai , Claudia Tomozei and Oana Irimia, Mathematical perspectives in the variable texture products cutting, Processes, 2022 vol. 10, no. 8, 1603, 10.3390/pr10081603, WOS:000845796500001
- [76]. Emilian Moșneguțu, Claudia Tomozei, Mirela Panainte-Lehădușu, Dana Chițimuș and Oana Irimia, Geometric calculation of the influence of an oscillating sieve's actuation mechanism position on its motion,

- Processes, 2022, vol. 10, no. 9, 1760, 10.3390/pr10091760, WOS:000857647700001
- [77]. Mohamed Abdelwaheb, Valentin Nedeff, Sonia Dridi-Dhaouadi, Emilian Moşneguţu, Narcis Barsan, Alexan-dra-Dana Chiţimus, Assessment of cadmium and copper adsorption by two agricultural soils from Romania and Tunisia: risk of water resource pollution, Processes, 2022, vol. 10, no. 9, 1802, 10.3390/pr10091802, WOS:000856653500001
- [78]. Andrei, Zaharia; Nedeff, Valentin; Barsan, Narcis; Panainte-Lehadus, Mirela; Mosnegutu, Emilian; Chilimus, Dana; Tomozei, Claudia, Ultrafiltration technology application in the industrial wastewater treatment processes, Fresenius Environmental Bulletin, 2022, vol. 31, nr. 8B, pag. 8742-8751, WOS:000850209000019
- [79]. Przydatek Grzegorz, Moşneguţu Emilian, Cabała Adrian, Irimia Oana, Hazardous Waste Advanced Management in a Selected Region of Poland, Processes, 2022, vol. 10, nr. 10, ID 2032, 10.3390/pr10102032, WOS:000875217200001
- [80]. Oana, Irimia; Grzegorz, Przydatek; Mirela, Panainte-Lehadus; Claudia, Tomozei; Emilian, Mosnegutu; Piotr, Gawron, Indicators of Impact Selected Municipal Units on the Air Quality-Case Study from Poland and Romania, PROCESSES, DEC 2022, vol. 10, nr. 12, 2485, 10.3390/pr10122485, WOS:000902812200001
- [81]. Goldan, E., Nedeff, V., Barsan, N., Culea, M., Panainte-Lehadus, M., Mosnegutu, E., Tomozei, C., Chitimus, D., Irimia, O., Assessment of Manure Compost Used as Soil Amendment-A Review, Processes, vol. 11, no. 4, 2023, 1167, 10.3390/pr11041167, WOS:000977626500001
- [82]. Irimia, O., Panaite-Lehadus, M., Tomozei, C., Mosnegutu, E., Przydatek, G., Origin-Destination Traffic Survey-Case Study: Data Analyse for Bacau Municipality, Sustainability, vol. 15, no. 6, 2023, 4975, 10.3390/su15064975, WOS:000967792200001
- [83]. Placinta, C., Stanciu, S., Panainte-Lehadus, M., Mosnegutu, E., Nedeff, F., Nedeff, V., Tomozei, C., Petrescu, T.C., Agop, M., Theoretical and Experimental Designs on Several Mechanical Properties of Cu-Al-Zn Shape Memory Alloys Used in the Processing Industry, Materials, 2023, vol. 16, no. 4, 1441, 10.3390/ma16041441, 36837071, WOS:000940069700001
- [84]. Przydatek, G., Ryniewicz, A., Irimia, O., Tomozei, C., Mosnegutu, E., Bodziony, M., Analysis of noise levels in typical passenger cars, Sustainability, vol. 15, no. 10, 2023, 7910, 10.3390/su15107910, WOS:000996837100001.
- [85]. Chitimus Dana, Nedeff Valentin, Emilian Mosnegutu*, Narcis Bârsan, 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, vol. 15, nr. 11, ID 8729; 10.3390/su15118729, WOS:001005352300001
- [86]. Ghezali, K; Abdelwaheb, M; Nedeff, V; Mosnegutu, E; Guettaf, N ; Barsan, N, Short-term Laboratory Adsorption of Zinc and Cadmium Ions from Aqueous Solutions to Ground Canna indica Roots, WATER AIR AND SOIL POLLUTION, Volume234, Issue12, DOI10.1007/s11270-023-06740-8
- [87]. Zaharia, A; Nedeff, V; López-Ramírez, JA; Mosnegutu, E; Barsan, N; Lehadus-Panaite, M; Krzysztow, J; Tomozei, C, Scanning Electron Microscope Analysis of Polypropylene Filter Cartridges Used in Drinking Water Purification Systems, WATER, Volume16, Issue1, DOI10.3390/w16010165
- [88]. Lupu, M; Nedeff, V; Panainte-Lehadus, M; Mosnegutu, E; Tomozei, C; Chitimus, D; Rusu, DI, The Textural and Physical Characteristics of Red Radishes Based on a Puncture Test, PROCESSES, Volume12, Issue2, DOI10.3390/pr12020282
- [89]. Irimia, O; Gaspar, E; Stanciu, M; Mosnegulu, E; Barsan, N, Optimizing Nitrogen and Phosphorus Removal from Wastewater in the Context of a Sustainable Economy, WATER, Volume16, Issue11, DOI10.3390/w16111585
- [90]. Mosnegutu, E; Bibire, L; Chitimus, D; Panainte-Lehadus, M; Jasinski, M; Przydatek, G; Sporea, N, Analysis of a Mechanism Used to Operate an Oscillating Separator, APPLIED SCIENCES-BASEL, Volume14, Issue13, DOI10.3390/app14135836
- [91]. Przydatek, G; Golonka, M; Barsan, N; Mosnegutu, E; Chitimus, AD; Irimia, O, Environmental and energy efficiency of a selected municipal wastewater treatment plant - a case study, ENGINEERING RESEARCH EXPRESS, Volume6, Issue3, DOI10.1088/2631-8695/ad6232
- [92]. Nikiema, Mahamadi; Barsan, Narcis; Ouili, Amidou S.; Mosnegutu, Emilian; Somda, K. Marius; Maiga, Ynoussa; Tidiane, Compaore Cheik Omar; Ouattara, Cheik A. T.; Nedeff, Valentin; Ouattara, Aboubakar S., Determination of Particle Size for Optimum Biogas Production from Ouagadougou Municipal Organic Solid Waste, SUSTAINABILITY, 2024, vol. 16, nr. 22, art. nr. 9792, DOI 10.3390/su16229792
- [93]. Przydatek, Grzegorz; Detyna, Beata; Mosnegutu, Emilian; Orpel, Kamil, Impact of selected logistic factors on the efficiency of municipal waste collection with use the advanced statistical tools, JOURNAL OF ECOLOGICAL ENGINEERING, 2025, vol. 26, nr. 8, pag. 307-317, DOI 10.12911/22998993/204215
- [94]. Gaspar, Eniko; Irimia, Oana; Stanciu, Mirela; Barsan, Narcis; Mosnegutu, Emilian, Strategies for a Sustainable Economy: Optimizing Processes for BOD, COD and TSS Removal from Wastewater, WATER,

2025, vol. 17, nr. 3, nr. art. 318, DOI 10.3390/w17030318

- [95]. Mosnegutu, Emilian; Jasinski, Marcin; Panainte-Lehadus, Mirela; Tomozei, Claudia; Irimia, Oana; Sporea, Nicoleta; Bibire, Luminita; Wiewiorska, Iwona, Mathematical Study of a Product-Gripping Mechanism for Industrial Transportation, APPLIED SCIENCES-BASEL, 2025, vol. 15, nr. 8, nr. art. 4176, DOI 10.3390/app15084176
- [96]. Irimia, Oana; Tomozei, Claudia; Panainte-Lehadus, Mirela; Chitimus, Dana; Nedeff, Florin; Barsan, Narcis; Mosnegutu, Emilian; Mirila, Diana, Understanding Primary School Students' Knowledge and Attitudes Towards Water Management: Insights from Environmental Education, SOCIETIES, 2025, vol. 15, nr. 4, art. nr. 109, DOI 10.3390/soc15040109
- [97]. Mosnegutu, E.; Przydatek, G.; Chitimus, D.; Placinta, C.; Barsan, N.; Tomozei, C.; Nedeff, F.; Sporea, N, Study on the Public Information Level About the Waste Management System, URBAN SCIENCE, 2025, vol 9, nr. 5, art. nr. 148, DOI 10.3390/urbansci9050148
- [98]. Mosnegutu, E.; Tomozei, C.; Irimia, O.; Ciubotariu, V.; Mirila, D.; Panainte-Lehadus, M.; Jasinski, M.; Sporea, N.; Petre, I.C. The Influence of the Geometric Configuration of the Drive System on the Motion Dynamics of Jaw Crushers. Processes 2025, 13, doi:10.3390/pr13082498
- [99]. Mosnegutu, E.; Tomozei, C.; Nedeff, F.; Chitimus, D.; Mirila, D.; Wiewiorska, I.; Jasinski, M.; Sporea, N. Towards Efficient Waste Handling: Structural Group Reduction in Lifting Mechanism Design. Processes 2025, 13, doi:10.3390/pr13092744
- [100]. Mosnegutu, E.; Barsan, N.; Przydatek, G.; Panainte-Lehadus, M.; Chitimus, D.; Irimia, O.; Placinta, C. Evaluation of the City Waste Management Taking into Account the New Economic and Population Perceptions. Pol J Environ Stud 2025, doi:10.15244/pjoes/197048.
- [101]. Ouro-Sama, K.; Solitoke, H.D.; Tanouayi, G.; Barsan, N.; Mosnegutu, E.; Agbere, S.; Badanaro, F.; Nedeff, V.; Gnandi, K.; Nedeff, F.M.; et al. Multivariate Analysis and Geostatistics of the Physicochemical Quality Waters Study from the Complex Lake Togo-Lagoon of Aneho (Southern Togo). Appl Sci-Basel 2025, 15, doi:10.3390/app15147940
- [102]. Poetelea, D.P.; Mosnegutu, E.; Tomozei, C.; Nedeff, F.; Barsan, N.; Panainte-Lehadus, M.; Mirila, D.C.; Przydatek, G. Environmental Monitoring and Quality Dynamics of Wheat During One Year of Natural Storage. Processes 2025, 13, doi:10.3390/pr13082549
- [103]. Przydatek, G.; Ciula, J.; Barsan, N.; Mirila, D.; Mosnegutu, E. Groundwater Quality Analysis: Assessing the Impact of a Closed Landfill-A Case Study on Physico-Chemical and Microplastic Contaminants. Appl Sci-Basel 2025, 15, doi:10.3390/app15158223
- [104]. Przydatek, G.; Detyna, B.; Mosnegutu, E.; Orpel, K. Impact of selected logistic factors on the efficiency of municipal waste collection with use the advanced statistical tools. J Ecol Eng 2025, 26, 307-317, doi:10.12911/22998993/204215

B) articole publicate în reviste indexate BDI

1. **Mosnegutu Emilian**, Nedeff Valentin, Mihail Ristea, Mirela Panainte, Carmen Savin, Research on aerodynamic separation of mixtures solids, The 4th International Conference on Advanced concepts on mechanical engineering, ACME 2010, Iasi, Romania, 17-18 Iunie, Buletinul Institutului politehnic din Iași, publicat de Universitatea tehnică, Gheorghe Asachi din Iași, Tomul LVI (LX), Fasc. 4B, Secția Construcții de mașini, 2010, ISSN 1011-2855, pag. 433,
2. Savin Carmen, Nedeff Valentin, Zichil Valentin, Ambăruș Alexandru Irinel, Panainte Mirela, **Mosnegutu Emilian**, Numerical analysis mixing device finite element method (FEM) (MEF), The 4th International Conference on Advanced concepts on mechanical engineering, ACME 2010, Iasi, Romania, 17-18 Iunie, Buletinul Institutului politehnic din Iași, publicat de Universitatea tehnică, Gheorghe Asachi din Iași, Tomul LVI (LX), Fasc. 4B, Secția Construcții de mașini, 2010, ISSN 1011-2855, pag. 461;
3. Panainte Mirela, Nedeff Valentin, Olaru Ciprian, **Mosnegutu Emilian**, Savin Carmen, Macarescu Bogdan, Study regarding the influence of cutting bodies surface state on energy consumption in grinding process of vegetable products with hard texture, The 4th International Conference on Advanced concepts on mechanical engineering, ACME 2010, Iasi, Romania, 17-18 Iunie, 2010, Buletinul Institutului Politehnic din Iași, ISSN 1011 - 2855 (B+);
4. Nedeff Valentin, Tomozei Claudia, Panainte Mirela, Macarescu Bogdan, **Mosnegutu Emilian**, Lazar Gabriel, Noise monitoring in a high traffic area of Bacau, Romania, JESR – 17/2011, nr. 1, ISSN 2068-7559, pag. 57 – 83;
5. Chițimșu Alexandra-Dana, Nedeff Valentin, Lazăr Gabriel, Măcărescu Bogdan, **Mosnegutu 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.

6. **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.
7. Bontas Ovidiu, Nedeff Valentin, **Mosnegutu Emilian** Florin, Panainte Mirela, Study of factors influencing the solid particles on a flat inclined surface, Journal of Engineering Studies and Research, 2012, vol. 18, no. 1, ISSN 2068-7559, pag. 39-46
8. **Mosnegutu Emilian**, Nedeff Valentin, Bontas Ovidiu, Bârsan Narcis, Chițimuş 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, 14 -15 June 2012 ACME 6-11, Buletinul Institutului Politehnic din Iaşi Tomul LVI (LX), Fasc. 4B, Secția Construcții de Mașini, 2012, ISSN 1011-2855
9. Chițimuş Dana. **Mosnegutu Emilian**, Nedeff Valentin, Ovidiu Bontas, Narcis Bârsan, Possibilities to determining the solid particle trajectories on an oscillating separation screen, Journal of Engineering Studies and Research, 2014, vol. 20, no. 3, pag. 63-69
10. **Mosnegutu Emilian**, Nedeff Valentin, Bontas Ovidiu, Bârsan Narcis, Chițimuş Dana, 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.
11. Holy Holenu Mangenda, Tomozei Claudia, Nedeff Valentin, Kakese Kunyima, Barsan Narcis, **Mosnegutu Emilian**, Municipal waste management in limete, mont amba District of Kinshasa, Democratic Republic of the Congo, Journal of Engineering Studies and Research, 2068-7559, 2014, vol. 20, nr. 2, p. 39-45
12. Rotaru Mădălin-Ionuț, Nedeff Valentin, Chițimuş Alexandra-Dana, **Mosnegutu Emilian Florin**, Bârsan Narcis, 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.
13. Mangenda Holy Holenu, Nedeff Valentin, Barsan Narcis, **Mosnegutu Emilian Florin**, Chitimus Dana, 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.
14. Dascau Mihaela-Elena, **Mosnegutu Emilian**, Nedeff Valentin, Chitimus Alexandra-Dana, 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.
15. **Mosnegutu Emilian**, Nedeff Valentin, Narcis Bârsan, Chitimus Alexandra-Dana, 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.
16. Mădălin-Ionuț Rotaru, Nedeff Valentin, Alexandra-Dana Chițimuş, **Mosnegutu Emilian Florin**, Bârsan Narcis, 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, p.78-86, 2015;
17. Nedeff Florin Marian, Agop Marcel, **Mosnegutu Emilian Florin**, Barsan Narcis, Evaluation of the reverberation time improvement in a speaking hall, Journal of Engineering Studies and Research, 2016, vol. 22, nr. 2, pag. 49;
18. **Mosnegutu Emilian**, Nedeff Valentin, Panainte-Lehadus Mirela, Bârsan Narcis, Chitimus Dana, Dragos Rusu, Determination of the real values of kinematic index corresponding to the mechanical separation process, Jurnal Journal of Engineering Studies and Research, 2068-7559, 2016, vol. 22 nr. 2, pp. 39-48;
19. Tataru Laurențiu, Nedeff Valentin, Barsan Narcis, Panainte-Lehadus Mirela, **Mosnegutu Emilian**, Chitimus Dana-Alexandra, 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.
20. Capșa Doina, Bârsan Narcis, Nedeff Valentin, **Mosnegutu Emilian**, 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.
21. **Mosnegutu Emilian**, Nedeff Valentin, Panainte-Lehadus Mirela, Narcis Bârsan, Chitimus Dana, Rusu Dragos, 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.
22. Barsan Narcis, Turcu Mariana, Nedeff Valentin, **Emilian, Mosnegutu**, Chitimus Dana, Laboratory applications in wastewater treatment by using flocculation process, Journal of Engineering Studies and Research, vol. 23, no. 3, 2017, p. 7-11.
23. Fabian Florina, Nedeff Valentin, Bârsan Narcis, **Mosnegutu Emilian**, Energy Consumption Assessment in the Water Treatment Process, Bacau City Case Study, The Annals of “Dunarea De Jos” University of Galati, Fascicle ix. Metallurgy and Materials Science, No, 3 - 2017, ISSN 1453-083X 2017, nr. 3, pp. 5-10
24. Capsa Doina, Nedeff Valentin, Barsan Narcis, **Mosnegutu Emilian**, Chitimus Dana, 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.

25. Panainte-Lehadus Mirela, Barsan Narcis, Irimia Oana, Tomozei Claudia, **Mosnegutu Emilian**, Nedeff Florin, Application on the workplaces hazards measurement in a bakery unit, Journal of Engineering Studies and Research, 2068-7559, 2017, vol. 23 nr. 4, pp. 14-18

26. Tataru Laurentiu, Nedeff Valentin, Barsan Narcis, Mirela Panainte-Lehadus, **Mosnegutu Emilian**, Chitimus Dana, Fabian Florina, 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.

27. Stingu (Palici), C.C., Nedeff, V., **Mosnegutu, E.F.**, Sandu, I., Vasilache, V., Kostrakiewicz-Gieralt, K., Antonovici (Munteanu), M.O., Date privind ariile protejate din județul Iași din perspectiva normelor europene., Euroinvent - International Workshop, Scientific, Technological and Innovative Research in Current European Context, 11th edition, 16 May 2019, Iasi, Topics: Scientific Inquiries through Elective Elaborations, Editors: I.G. Sandu, I. Sandu, I.C. Negru and A.S. Ciornei), Ed. PIM, pp. 185-210, 2019. BDI.

28. Stingu (Palici), C.C., Nedeff, V., **Mosnegutu, E.F.**, Sandu, I., Vasilache, V., Kostrakiewicz-Gieralt, K., Antonovici (Munteanu), M.O., Măsurile specifice de conservare a biodiversității zonelor umede., Euroinvent - International Workshop, Scientific, Technological and Innovative Research in Current European Context, 12th edition, 21 May 2020, Iasi, Topics: Scientific Inquiries through Elective Elaborations, (Editors: I.G. Sandu, I. Sandu and A.S. Ciornei), Ed. PIM, , pp. 148-180, 2020

29. Turcu Mariana, Barsan Narcis, Ianculescu Dan, Nedeff Valentin, Chitimus Dana, Panainte-Lehadus Mirela, **Mosnegutu Emilian**, Organic flocculants applications in the treatment of municipal sludge, ROMAQUA, vol. 146, no. 8, 2020, p. 29-35.

30. **Mosnegutu Emilian-Florin**, Barsan Narcis, Chitimus Alexandra-Dana, Tomozei Claudia, Ristea Mihail, 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.

31. **Mosnegutu Emilian-Florin**, Nedeff Valentin, Chitimus Alexandra- Dana, Jasiński Marcin, Barsan Narcis, 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.

32. **Mosnegutu Emilian**, Barsan Narcis, Panainte-Lehadus Mirela, Chitimus Dana, Tomozei Claudia, 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.

33. Abdelwaheb Mohamed, Nedeff Valentin, Dridi-Dhaouadi Sonia, **Mosnegutu Emilian**, Chitimus Alexandra- Dana, The study of a tunisian soil using scanning electronic microscope, Journal of Engineering Studies and Research, Vol. 28, nr. 1, 2021, pg. 7-12.

PUBLICAȚII ÎN EXTENSO, APĂRUTE ÎN LUCRĂRI ALE PRINCIPALELOR CONFERINTE INTERNAȚIONALE DE SPECIALITATE

A) articole publicate în proceedings indexate ISI

1. Macarescu Bogdan, Nedeff Valentin, **Mosnegutu Emilian**, Study and research concerning content in heavy metals of dust which deposit on soil, Conference: 14th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Sarajevo, BOSNIA & HERCEG Date: OCT 22-25, 2003 , Source: Annals of DAAAM for 2003 & Proceedings of the 14th International DAAAM Symposium: Intelligent manufacturing & automation: focus on reconstruction and development Pag.: 275-276 Published: 2003

2. **Mosnegutu Emilian**, Nedeff Valentin, Panainte Mirela, The influence of mixture coefficient about separation in flow air of heterogeneous mixture gas-solid, Conference: 14th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Sarajevo, BOSNIA & HERCEG Date: OCT 22-25, 2003, Source: Annals of DAAAM for 2003 & Proceedings of the 14th International DAAAM Symposium: Intelligent manufacturing & automation: focus on reconstruction and development Pag.: 305-306 Published: 2003

3. Nedeff Valentin, **Mosnegutu Emilian**, Panainte Mirela, Study and research concerning to influence of particles size and form of mixture, towards separation degree in vertical flow air, Conference: 14th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: cSarajevo, BOSNIA & HERCEG Date: OCT 22-25, 2003, Source: Annals of DAAAM for 2003 & Proceedings of the 14th International DAAAM Symposium: Intelligent manufacturing & automation: focus on reconstruction and development Pag.: 321-322 Published: 2003

4. Nedeff Valentin, **Mosnegutu Emilian**, Savin Carmen, Influence of particles condition surface and humidity of mixture, towards separation degree in vertical flow air, Conference: 14th International

Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: cSarajevo, BOSNIA & HERCEG Date: OCT 22-25, 2003, Source: Annals of DAAAM for 2003 & Proceedings of the 14th International DAAAM Symposium: Intelligent manufacturing & automation: focus on reconstruction and development Pag.: 323-324 Published: 2003

5. Nedeff, V; Inglezakis, V; Lazar, I ; Panainte, M; **Mosnegutu, E**; Caraman, I; Lazar, G , Green products theme as learning subject, edulearn13: 5th international conference on education and new learning technologies, Edited by: Chova, LG; Martinez, AL; Torres, IC, Book Series: EDULEARN Proceedings, Pages: 3403-3408, Published: 2013, Document Type: Proceedings Paper, WOS:000346798303060

6. **Mosnegutu Emilian**, Nedeff Valentin, Panainte- Lehaduș 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.

7. Panainte-Lehadus Mirela, Nedeff Valentin, **Mosnegutu Emilian**, Lazar Gabriel, Caraman Iuliana, Tomozei Claudia, Chitimus Dana, Barsan Narcis, 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.

8. Panainte-Lehaduș, M., Nedeff, V., **Mosnegutu, E.**, Caraman, I., Bârsan, N., Production and distribution of green products in Romania, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM Volume 2, Issue 5, 2015, pag. 397-404 15th International Multidisciplinary Scientific Geoconference and EXPO, SGEM 2015; Albena; Bulgaria; 18 June 2015 through 24 June 2015; Code 153979;

9. **Mosnegutu Emilian**, Nedeff Valentin, Ovidiu Bontas, Barsan Narcis, Chitimus Dana, 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.

10. Panainte-Lehadus, M., Olaru, C., Nedeff, V., Olaru, I., **Mosnegutu, E.**, The study behavior of food materials with soft texture subjected to shredding by cutting (Conference Paper) (Open Access), IOP Conference Series: Materials Science and Engineering, Volume 147, Issue 1, 2 September 2016, Article number 012150, 7th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2016; Iasi; Romania; 9 June 2016 through 10 June 2016; Code 123857, 10.1088/1757-899X/147/1/012150, WOS:000390720200150

11. Barsan Narcis, Nedeff Valentin, Chitimus Dana, **Mosnegutu Emilian**, 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.

12. 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.

13. Tataru L., Nedeff V., Barsan N., Panainte-Lehadus M., **Mosnegutu E. F.**, Efficiency studies of hollow fiber organic membranes in restraining yeast from wastewater subjected to ultrafiltration, Proceeding of the International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, ISBN: 978-1-5108-4819-1, 2018, vol. 18, (3.1), pp. 235-242

14. Cochiorca A., Nedeff V., Barsan N., Panainte-Lehadus M., **Mosnegutu E. F.**, Aspects related to water quality assessment in a mining activity area. Case study, mining area Tg. Oghina, Romania Proceeding of the International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, ISBN: 978-1-5108-4819-1, 2018, vol. 18, (3.1), pp. 87-94

15. Chitimus Alexandra-Dana, Barsan Narcis, **Mosnegutu Emilian-Florin**, Corobana Alina, Nedeff Valentin, 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.

16. **Mosnegutu Emilian-Florin**, Chitimus Alexandra-Dana, Barsan Narcis, Rusu Dragos, Vulpe Mihai, Nedeff Valentin, Jasiński Marcin, Studies and Researches Regarding the Influence of the Size of Solid Particles Forming a Heterogeneous Mix on the Aerodynamic Separation Process, 7th International Conference on Energy Efficiency and Agricultural Engineering (EE and AE), NOV 12-14, 2020, 781728103617.

17. Barsan Narcis, Zaharia Andrei, Chitimus Dana, **Mosnegutu Emilian**, Nedeff Florin, 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.

18. 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, DOI 10.1109/EEAE53789.2022.9831319

19. Diana Petronela Poetelea, Emilian Mosneguțu, Claudia Tomozei, Florin Nedeff, Mirela Panainte-Lehadus, Diana Mirila, Oana Irimia and Valentin Nedeff, Integrated analysis of wheat storage parameters in uncontrolled environments: case study of Valea Seacă, Bacău county, 5 – 7 November, 2025, 10th INTERNATIONAL CONFERENCE ON ENERGY EFFICIENCY AND AGRICULTURAL ENGINEERING (EE&AE 2025)

B) articole publicate în volumele unor conferințe internaționale

1. Dumitra Raducanu (Manea), 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.

2. Belciu Mihai, Nedeff Valentin, Chițimuş Alexandra Dana, **Mosnegutu Emilian**, 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.

3. Nedeff Valentin, Cristian Radu, Chițimuş, Alexandra-Dana, **Mosnegutu 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.

4. Belciu Mihai-Cosmin, Nedeff Valentin, Chițimuş Alexandra-Dana, **Mosnegutu Emilian Florin**, Bârsan Narcis, 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.

5. Rotaru Mădălin, Chițimuş Alexandra-Dana, Nedeff Valentin, **Mosnegutu Emilian**, 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.

6. **Mosnegutu Emilian**, Nedeff Valentin, Mirela Panainte, Barsan Narcis, Chitimus Dana, 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.

7. Capsa Doina, Nedeff Valentin, Barsan Narcis, **Mosnegutu Emilian**, Chitimus Dana, Vulpe Mihai, 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.

8. Barsan Narcis, Nedeff Valentin, **Mosnegutu Emilian**, Chitimus Dana, Turcu Mariana, 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.

ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚIFICE SAU, DUPĂ CAZ, DIN DOMENIUL CREAȚIEI ARTISTICE

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