

Lista de lucrări

I. Lucrări ISI

1. Vasilica Maria, Capsa Doina, Covaci Irina, Nedeff Valentin, Bârsan Narcis, Panainte Mirela, A case study of heavy rainfall in the central-southern Moldavia region, Environmental Engineering and Management Journal, vol. 11, No. 12, 2012, p. 2151-2158. WOS:000314169000005
2. Narcis Bârsan, Valentin Nedeff, Emilian Florin Moşneguţu, Mirela Panainte, Heat balance components of a small sequencing batch reactor applied for municipal wastewater treatment, Environmental Engineering and Management Journal, Vol.11, No. 12, 2012, p. 2131-2138. WOS:000314169000003
3. Irimia, Oana Tirtoaca, Tomozei, Claudia, Panainte, Mirela, Mosnegutu, Emilian Florin, Barsan, Narcis, Efficiency of filters with different filtering materials: comparative study in water treatment, Environmental Engineering and Management Journal, Vol. 12, no. 1, 2013, p. 35-39. WOS:000317803300005
4. Mariana Turcu, Valentin Nedeff, Narcis Barsan, Emilian Florin Mosnegutu, Mirela Panainte, Application of organic flocculants for the treatment of sludge from municipal wastewater treatment plants, Environmental Engineering and Management Journal, Vol.12, No. 1, 2013, p. 163-166. WOS:000317803300018
5. Narcis Barsan, Ion Joita, Marius Stanila, Cristian Radu, Mihaela Dascalu, Modelling wastewater treatment process in a small plant using a sequencing batch reactor (SBR), Environmental Engineering and Management Journal, Vol.13, no. 7, 2014, p. 1561-1566, WOS:000344577400002
6. Mariana Turcu, Narcis Bârsan, Oana Irimia, Ion Joiţa, Mihai Belciu, Application of synthetic chemical compounds in petroleum sludge treatment, Environmental Engineering and Management Journal, Vol.13, No. 7, 2014, p. 1751-1756. WOS:000344577400025
7. Dumitru-Cristinel Nadabaica, Stanisław Radkowski, Valentin Nedeff, Gigel Paraschiv, Narcis Barsan, Mihai C Nicolescu, Experimental study of noise levels generated by rolling bearings in different stages of deterioration, Environmental Engineering and Management Journal, Vol.13, No. 7, 2014, p. 1631-1639. WOS:000344577400011
8. Mirela Panainte, Iuliana Caraman, Valentin Nedeff, Vassilis Inglezakis, Christos Venetis, Philipos Coutsikos, Gabriel Lazar, Narcis Barsan, Green market: a comparative study in Romania, Fresenius Environmental Bulletin, vol. 23, no. 11, 2014, p. 2870-2875. WOS:000349805500013
9. Mihai-Cosmin Belciu, Emilian Florin Moşneguţu, Valentin Nedeff, Alexandra-Dana Chițimuş, Narcis Barsan, Silvia Fiore, Production capacity of leachate from Bihor landfill, Environmental Engineering and Management Journal, 1582-9596, vol. 15, no. 3, 2016, p. 2057-2062. WOS:000390326200019
10. Doina Capşa, Narcis Barsan, Daniel Felegeanu, Marius Stanila, Ioan Joita, Madalin Rotaru, Camelia Ureche, Influence of climatic factors on the pollution with nitrogen oxides (NOX) in Bacau City, Romania, Environmental Engineering and Management Journal, 1582-9596, vol. 15, no. 3, 2016, p. 655-663, WOS:000376876400020.

11. Mariana Turcu, Narcis Bârsan, Emilian Moşneguțu, Mihaela Dascălu, Dana Chițimuş, Cristian Radu, Application of the flocculation process in the industrial wastewater treatment, Environmental Engineering and Management Journal, 1582-9596, vol. 15, no. 3, 2016, p. 521-526, WOS:000376876400005.
12. 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, vol. 17, no. 4, 2016, p. 381 – 393., WOS:000391283400006
13. Antonina Temea, Claudio Comoglio, Serena Botta, Valentin Nedeff, Mirela Panainte-Lehăduș, Marcela Danu, Narcis Barsan, Developing a green register of eco-labeled products in Romania, Environmental Engineering and Management Journal, vol. 15, no. 8, 2016, p. 1873-1878. WOS:000388119400022
14. 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, vol. 12, no. 1, 2017, p.61-66. WOS:000404526200006
15. Mahamadi Nikiema, Narcis Barsan, Marius K. Somda, Desiré Traore, Dayéri Dianou, Valentin Nedeff, Alfred S. Traore, Optimization of biogas production from organic fraction of municipal solid waste: experimental test using liquid from waste fermentation, Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry, vol. 18 no. 2, 2017, p. 213 – 224. WOS:000406261500010
16. Florin Marian Nedeff, Narcis Bârsan, Adriana Luminița Fînaru, Studies and research concerning the use of some recyclable absorbent materials for increasing acoustic comfort into a room designed for speaking, Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2017, vol. 18 no. 3, p. 329-338. WOS:000419642100009
17. Tataru, L., Nedeff, V., Barsan, N., Mosnegutu, E., Panaintelehadus, M., Sandu, I., Chitimus, D., Studies of Humic Acid Removal from Aqueous Systems by Using Polymeric Membrane Ultrafiltration Process, Mat. Plast., vol. 55, no. 4, 2018, p. 660-685. WOS:000454987400048
18. Cochiorca, A., Nedeff, V., Barsan, N., Mosnegutu, E.F., Panainte-Lehadus, M., Tomozei, C., Analysis Of Water Quality For Two Rivers Located Near A Mining Area, Chemistry & Chemical Engineering, Biotechnology, Food Industry, 19, no. 4, 2018, p. 455 – 463. WOS:000452211700009
19. Emilian Moşneguțu, Valentin Nedeff, Narcis Bârsan, Dragoș Rusu, The influence of air velocity on the behavior of a solid particle displacement in a vertical path, Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2018, vol. 19 no. 4, pp. 431 – 441. WOS:000452211700007
20. Sifolo S. Coulibaly, Flavien Ettien Edoukou, Kouadio I. Kouassi, N.Barsan, V.Nedeff, I. A. Bi Zoro, Vermicompost utilization: A way to food security in rural area, Helyon, 2018, vol. 4, no. 12, pp. e01104. WOS:000454725700006
21. Elena Goldan, Valentin Nedeff, Narcis Barsan, Emilian Mosnegutu, Andrei Victor Sandu, Mirela Panainte, 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,

- REV.CHIM.(Bucharest), vol. 70, No. 3, 2019, p. 809- 813.
WOS:000464911600014
22. Oana Maria Muscalu (Plescan), Valentin Nedeff, Ioan Gabriel Sandu, Alexandra Dana Chitimis, Elena Partal, Narcis Barsan, Dragos Ioan Rusu, Influence of Soil Fertilization Systems and Crop Rotation on Soil Chemical Properties, REV.CHIM.(Bucharest), 70, No. 2, 2019, p. 536-542.
WOS:000461982200036
23. Florina Fabian, Valentin Nedeff, Narcis Barsan, Emilian Mosnegutu, Energy and Chemicals Consumption Evaluation in Water Treatment Plant A comparative study between Bacau and Turin, REV.CHIM. (Bucharest), vol. 70, No. 3, 2019, p. 881-886. WOS:000464911600027
24. Laurentiu Tataru, Valentin Nedeff, Narcis Barsan, Andrei Victor Sandu, Emilian Mosnegutu, Mirela Panainte-Lehadus, Ion Sandu, Applications of Polymeric Membranes Ultrafiltration Process on the Retention of Bentonite Suspension, Materiale Plastice, vol. 56, No. 1, 2019, p. 97-102.
WOS:000464604100020
25. Elena Goldan, Valentin Nedeff, Ion Sandu, Narcis Barsan, Emilian Mosnegutu, Mirela Panainte, The Use of Biochar and Compost Mixtures as Potential, Organic Fertilizers, REV.CHIM.(Bucharest), vol. 70, No. 6, 2019, p. 2192- 2197. WOS:000475860100063
26. Lavinia Misaila, Florin Marian Nedeff, Narcis Barsan, Ioan Gabriel Sandu, Luminita Grosu, Oana-Irina Patriciu, Lucian Gavrila, Adriana-Luminita Finaru, WATERSHED - Android Application for the Mineral Waters Classification, REV.CHIM.(Bucharest), vol. 70, No. 6, 2019, p. 2212-2217.
WOS:000475860100067
27. Sampah Georges Eblin, Kouakou Seraphin Konan, Oi Mangoua Jules Mangoua, Valentin Nedeff, Andrei Victor Sandu, Narcis Barsan, Ion Sandu, Nitrate Pollution of Groundwater Based on GIS in the City of Daloa, West-central Cote d'Ivoire, REV.CHIM.(Bucharest), 70, No. 7, 2019, p. 2579-2583.
WOS:000485843500057
28. Alexandra Dana Chitimis, 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, No. 7, 2019, p. 2545-2551. WOS:000485843500050
29. 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, , REV.CHIM.(Bucharest), vol, 70, No. 5, 2019, p. 1726-1730.
WOS:000470086400043
30. Mirela Panainte Lehadus, Valentin Nedeff, Narcis Barsan, Andrei Victor Sandu, Emilian Mosnegutu, Claudia Tomozei, Oana Irimia, Gabriela Andrioai, Ion Sandu, Monitoring the Particulate Matter (PM10) Emissions from Bacau City Termo-Energetic Industry, REV.CHIM.(Bucharest), vol. 70, No. 8, 2019, p. 2869-2019. WOS:000489685600035
31. Alexandra Dana Chitimis, 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, No. 8, 2019, p. 3058-3061.
WOS:000489685600076

32. Alina Cochiorca, Narcis Barsan, Florin Marian Nedeff, Ion Sandu, Emilian Florin Mosnegutu, Mirela Panainte Lehadus, Dana Chitimis, 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, No. 10, 2019, p. 3678-3680. WOS:000500795900049
33. Carolina Untila Mihail Caraman, Valentin Nedeff, Narcis Barsan, Ion Sandu, Alexandra Dana Chitimis, 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, No. 10, 2019, p. 3570-3574. WOS:000500795900025
34. Alexandra Dana Chitimis, 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, No. 11, 2019, p. 4035- 4039. WOS:000503185300054
35. Narcis Barsan, Dana Chitimis, 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, No. 11, 2019, p. 4098- 4101. WOS:000503185300067
36. Laurentiu Tataru, Narcis Barsan, Florin Marian Nedeff, Ion Sandu, Emilian Mosnegutu, Dana Alexandra Chitimis, Alina Cochiorca, Ioan Gabriel Sandu, Treatment Study of Brook Water by Using the Ultrafiltration Pilot with Polymeric Membrane, Materiale Plastice, vol. 56, no. 4, 2019. p. 986-994. WOS:000509920700045
37. Lavinia Misăilă, Narcis Bârsan, Florin Marian Nedeff, Dumitra Răducanu, Luminița Grosu, Oana-Irina Patriciu, Lucian Gavrilă, Adriana-Luminița Finaru, Quality assessment of Slanic-Moldova mineral waters stored in reusable bottles, Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2020, 21 (2), p. 253 – 262. WOS:000546789300010
38. Tirtoaca (Irimia) Oana, Panainte-Lehadus Mirela, Tomozei Claudia, Mosnegutu Emilian, Chitimis Alexandra-Dana, Barsan Narcis, Study regarding the measuring of particulate matter PM2.5 and PM10 in industrial working environments, Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2020, 21 (2) p. 271 – 278. WOS:000546789300012
39. Vulpe Mihai, Valentin Nedeff, Panainte-Lehadus Mirela, Mosnegutu Emilian Florin, Barsan Narcis, Tomozei Claudia, Atudy of waste management in different areas from Romania, Fresenius Environmental Bulletin, 2021, 30, No. 03, p. 2686-2691. WOS:000629181400044
40. Sampah Georges Eblin, Kouakou Séraphin Konan, Tanoh Jean Jacques Koua, Mirela Panainte-Lehadus, Valentin Nedeff, Narcis Barsan, Assessment of Bandama River water resources for drinking water supply in Sinfra and Gagnoa localities (West-Central, Côte D'ivoire), Fresenius Environmental Bulletin, 2021, 30, No. 02A, p. 2218-2226. WOS:000626629800073
41. Cochiorca Alina, Fiorucci Adriano, Nedeff Valentin, Barsan Narcis, Mosnegutu Emilian Florin, Chitimis Dana, Panainte-Lehadus Mirela, Water

- quality analysis from a mining area. Case study: Targu Ocna Salt Mine, Romania, Environmental Engineering And Management Journal, 2021, 20, no. 3, p. 355-360. WOS:000637746900004
42. Mirela Panainte-Lehadus, Valentin Nedeff, Narcis Barsan, Emilian Mosnegutu, Antonina Temea, Claudia Tomozei, Oana Irimia, Dana Chitimus, Evaluation on consumer attitudes towards to the purchase of eco-labeled products, Fresenius Environmental Bulletin, 2021, vol. 30, no. 5, p. 5521-5528. WOS:000658173700091
43. Mihai Vulpe, Valentin Nedeff, Mirela Panainte Lehadus, Emilian Florin Mosnegutu, Paul Claudiu Cotirlet, Narcis Barsan, Educational Attainment Implication In The Waste Problems Perception A Case Study Applied To Romanian Citizens, Fresenius Environmental Bulletin, Volume 30– No. 06B/2021 pages 7639-7646. WOS:000670303700052
44. Hanen Filali, Narcis Barsan, Dalila Souguir, Valentin Nedeff, Claudia Tomozei, Mohamed Hachicha, Greywater as an Alternative Solution for a Sustainable Management of Water Resources—A Review, Sustainability, 2022, vol. 14, No. 2, art.no. 665, WOS:000757668100001
45. 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, nr. 9, 2022, WOS:000794497400001
46. 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, nr. 8, 2022, WOS:000786356700001
47. Lavinia Misaila, Narcis Barsan, Florin Marian Nedeff, Dumitra Raducanu, Cristian Radu, Luminita Grosu, Oana-Irina Patriciu, Lu8cian Gavrila, Adriana-Luminita Finaru, Perspectives for Quality Evaluation of Some Mineral Waters from Slanic Moldova, Water, vol. 14, no. 2942, WOS:000867160200001
48. 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, nr. 8, 2022, WOS:000787961900001
49. Fègbawè Badanaro, Narcis Barsan, Amivi Tété-Benissan, Valentin Nedeff, Mirela Panainte-Lehadus, Sustainable Local Food Evaluation by Dosage of Some Metallic Pollutants in Wild Insect Species Consumed in Togo, Sustainability, 2022, vol. 14, No. 3, art.no. 1892, WOS:000755645900001.
50. Fabian, F., Nedeff, V., Barsan, N., Panaiute-Lehadus, M., Mosnegutu, E. F., Cotirlet Paul-Claudiu, Chitimus, D., Tomozei, C., Irimia, O., Estimating the Carbon Footprint In Water Treatment Case Study The Treatment Plants From Bacau Romania And Turin Italy, Fresenius Environmental Bulletin, vol. 30, no. 10, 2021p. 11361-11370. WOS:000704955000039
51. Tirnovan, A., Covaci, O., Gazda, M. R., Barsan, N., Enea, A., Flood Vulnerability Reduction. Case Study: Tazlau River Basin, Downstream of Its Confluence With Tazlau Sarat, Present Environment And Sustainable Development, vol. 15, no. 2, 2021, p. 189-198. WOS:000744252400016
52. 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, no. 2, 2021, p. 275-279. WOS:000709770400014
53. Eblin, S. G., Anoh, K. A., Yao, A. B., Kouassi, K. L., Nedeff, V., Panainte-Lehadus, M., Barsan, N., Effect Of The Distribution System On Drinking Water Quality In The City Of Daloa (West Central Cote D'ivoire), Fresenius Environmental Bulletin, vol. 31, no. 6A, 2022, p. 6713-6720. WOS:000811588300078
54. Mosnegutu, E., Panainte-Lehadus, M., Nedeff, V., Tomozei, C., Barsan, N., Chitimis, D., Jasinski, M., Extraction of mathematical correlations applied in the aerodynamic separation of solid particles, Processes, 2022, vol. 10, No. 7, art.no. 1234. WOS:000832223400001
55. Panainte-Lehăduş M., Moşneguțu, E., Barsan, N., Andrioai, G., Tomozei, C., Oana Irimia, O., Mathematical Perspectives in the Variable Texture Products Cutting Process, Processes, vol. 10, no. 8, 2022, art.no. 1603. WOS:000845796500001
56. Abdelwaheb, M., Nedeff, V., Dridi-Dhaouadi, S., Moşneguțu, E., Barsan, N., Chițimus, A. D., Assessment of cadmium and copper adsorption by two agricultural soils from Romania and Tunisia: risk of water resource pollution, Processes, Volume 10, 2022, art. no. 1802. WOS:000856653500001
57. Zaharia, A., Nedeff, V., Barsan, N., Panainte-Lehăduş, M., Mosnegutu, E., Chițimus, A.D., Tomozei, C., Ultrafiltration technology application in the industrial wastewater treatment processes, Fresenius Environmental Bulletin, vol. 31, nr. 8B, 2022, p. 8742-8751. WOS:000850209000019
58. Goldan, E., Nedeff, V., Barsan, N., Culea, M., Panainte-Lehadus, M., Mosnegutu, E., Tomozei, C., Chitimis, D., Irimia, O., Assessment of Manure Compost Used as Soil Amendment-A Review, Processes, vol. 11, no. 4, 2023, art. no., 1167. WOS:000977626500001
59. Chitimis, D., Nedeff, V., Mosnegutu, E., Barsan, N., Irimia, O., Nedeff, F., Studies on the Accumulation, Translocation, and Enrichment Capacity of Soils and the Plant Species Phragmites Australis (Common Reed) with Heavy Metals, Sustainability, vol. 15, no. 11, 2023, art.no. 8729. WOS:001005352300001
60. Filali, H., Barsan, N., Hormann, G., Nedeff, V., Irimia, O., Nedeff, F., Hachicha, M., Greywater Vertical Treatment and Possibility of Reuse in the Fields from Peri-Urban Area, Agronomy, vol. 13, no., 3, 2023, art. no. 940, WOS:000952799300001
61. Misaila, L., Raducanu, D., Barsan, N., Alexa, I.C., Patriciu, O.I., Grosu, L., Assessment of the microbiota of some mineral water form Slanic Moldova (Romania): seasonal evaluation and after storage in different conditions, Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry, vol. 24, no. 2, 2023, p. 97-110, WOS:001025811900002

II Brevete de inventie

1. Nedeff, V., Sandu, A. V., Nedeff, F. M., Sandu, I. G., Barsan, N., Tataru, L., Sandu, I., Procedeu de obținere a membranelor polimerice asimetrice cu hidrofilie permanenta folosite la ultrafiltrarea apelor pentru industria farmaceutica și alimentara, Brevet de inventie 133608 B1, 2022, Clasificări

internăționale: C08G 75/20 (2006.01), B01D 61/20 (2006.01), B01D 39/16 (2006.01), WO 02/05937 A2.

III. Cărți

1. Emilian Mosnegutu, Dana Chitimus, Nedeff Florin, **Bârsan Narcis**, Separarea, mărunțirea, amestecarea și transportul produselor, Îndrumar de laborator, Alma Mater, 2019, ISBN 978-606-527-635-2, 128 pag.
2. **Bârsan Narcis**, Nedeff Valentin (coord.), Irimia Oana, Mirela Panainte-Lehadus, Emilian Mosnegutu, Dana Chitimus, Tomoze Claudia, Nedeff Florin, Proceduri de lucru pentru analiza calității apelor și a altor compuși lichizi, Alma Mater, 2018, ISBN 978-606-527-589-8, 147 pag.
3. Nedeff Valentin (coord.), Tomoze Claudia, Irimia Oana, Mirela Panainte-Lehadus, Emilian Mosnegutu, Dana Chitimus, **Bârsan Narcis**, Nedeff Florin, Proceduri de lucru pentru analiza calității aerului și a altor compuși gazoși, Alma Mater, 2018, ISBN 978-606-527-593-5, 142 pag.
4. Bibire Luminița (coord.), **Bârsan Narcis**, Aparate pentru industrie de proces: suport teoretic pentru orele de curs și aplicații pentru uzul studenților, Alma Mater, 2018, ISBN 978-606-527-608-6, 410 pag.
5. Nedeff Valentin, Chițimuş Alexandra-Dana, Moșneguțu Emilian, Panainte Lehăduș Mirela, Tomozei Claudia, Irimia Oana, **Bârsan Narcis**, Nedeff Florin Marian Proceduri de lucru pentru analiza solului și a altor materiale, Volumul 2, Editura Alma Mater Bacău 2018, ISBN 978-606-527-581-2, 978-606-527-583-6, 131 pag.
6. Nedeff Valentin (coord.), Cițimuş Dana, Mirela Panainte-Lehadus, Emilian Mosnegutu, **Bârsan Narcis**, Irimia Oana, Tomoze Claudia, Nedeff Florin, Proceduri de lucru pentru analiza solului și a altor materiale, Volumul 1, Alma Mater, 2017, ISBN 978-606-527-582-9, 125 pag
7. **Bârsan Narcis**, Nedeff Valentin (coord.), Moșneguțu Emilian, Lazăr Gabriel, Epurarea apelor uzate menajere în stații de epurare de capacitate mică, Editura Alma Mater Bacău, 2012, ISBN 978-606-527-213-2, 222 pag.

IV. PROCEEDINGS Indexate WOS/SCOPUS

1. Mosnegutu, E., Chitimus, A.-D., **Barsan, N.**, Rusu, D., Vulpe, M., Nedeff, V., Jasinski, M., Studies and researches regarding the influence of the size of solid particles forming a heterogenous mix on the aerodynamic separation process, 2020 7th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2020 – Proceedings, 12 November 2020, Article number 9279030, 7th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2020; Ruse; Bulgaria; 12 November 2020 through 14

November 2020; Category number CFP20V95-ART; Code 165935, DOI: 10.1109/EEAE49144.2020.9279030. (SCOPUS). WOS:000659299700071.

2. Chitimus, A.-D., **Barsan, N.**, Mosnegutu, E., Corobana, A., Nedeff, V., Muscalu, O.-M., Partal, E., Influence of Soil Fertilization Systems and Crop

Rotation on Physical and Chemical Properties of the Soil, 2020 7th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2020 – Proceedings, 12 November 2020, Article number 9278974, 7th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2020; Ruse; Bulgaria; 12 November 2020 through 14 November 2020; Category number CFP20V95- ART; Code 165935, DOI: 10.1109/EEAE49144.2020.9278974. (SCOPUS). WOS:000659299700016.

3. **Barsan, N.**, Zaharia, A., Chitimus, D., Mosnegutu, E., Florin, N., Rusu, D., Untila, C., Capsa, D., Filtration theory and techniques. A short review on the filtration process, 2020 7th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2020 – Proceedings 12 November 2020, Article number 9278975, 7th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2020; Ruse; Bulgaria; 12 November 2020 through 14 November 2020; Category number CFP20V95-ART; Code 165935. DOI: 10.1109/EEAE49144.2020.9278975. (SCOPUS). WOS:000659299700017.

4. Dermouchi, A., Bencheikh-Lehocine, M, Arris, S., Meniai, A.H., **Barsan, N**, Valentin, N., Cutting oil emulsion treatment by electrocoagulation using aluminum and iron electrodes, 9th International Renewable Energy Congress (IREC), Proceedings Paper, IEEE, 2018, pp. 1-6. WOS:000434869100121.

5. 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, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, Volume 18, Issue 3.1, 2018, Pages 235-242, 18th International Multidisciplinary Scientific Geoconference, SGEM 2018; Albena; Bulgaria; 2 July 2018 through 8 July 2018; Code 142873, DOI: 10.5593/sgem2018/3.1/S12.031 (SCOPUS).

6. Chitimus A. D., Cochiorca A., Nedeff V., **Barsan N.**, Muscalu-Plescan O., Studies and research on phragmites australis' (common reed) absorption capacity of heavy metals from the soil in Roman City, Romania, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, Volume 18, Issue 3.1, 2018, Pages 671-678, 18th International Multidisciplinary Scientific Geoconference, SGEM 2018; Albena; Bulgaria; 2 July 2018 through 8 July 2018; Code 142873 4. DOI: 10.5593/sgem2018/3.1/S12.087 (SCOPUS).

7. 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. Ogna, Romania, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, Volume 18, Issue 3.1, 2018, Pages 87-94, 18th International Multidisciplinary Scientific Geoconference, SGEM 2018; Albena; Bulgaria; 2 July 2018 through 8 July 2018; Code 142873. DOI: 10.5593/sgem2018/3.1/S12.012 (SCOPUS).

8. **Barsan Narcis**, Nedeff Valentin, Chitimus Dana, Mosnegutu Emilian, Fabian Florina, Increasing the wastewater treatment capacity of small Sequencing Batch Reactor treatment plants using sequential operation, International Multidisciplinary Scientific GeoConference Surveying

Geology and Mining Ecology Management, SGEM, Volume 17, Issue 52, 2017, Pages 523-530, 17th International Multidisciplinary Scientific Geoconference, SGEM 2017; Albena; Bulgaria; 29 June 2017 through 5 July 2017; Code 130787. DOI: 10.5593/sgem2017/52/S20.067 (SCOPUS).

9. 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, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, Volume 17, Issue 52, 2017, Pages 859-866, 17th International Multidisciplinary Scientific Geoconference, SGEM 2017; Albena; Bulgaria; 29 June 2017 through 5 July 2017; Code 130787. DOI: 10.5593/sgem2017/52/S20.110 (SCOPUS).

10. Mosnegutu Emilian, Nedeff Valentin, Bontas Ovidiu, **Barsan Narcis**, Chitimus Dana, Rusu Dragoş, Determination of kinematic indices corresponding to a solid particle on a flat oscillating surface, IOP Conference Series: Materials Science and Engineering, 2016, 147, WOS:000390720200151.

11. Panainte-Lehăduş, M., Nedeff, V., Moşneguţu, E., Caraman, I., **Bârsan N.**, Production and distribution of green products in Romania, vol. 2, no. 5 pp. 397-404, International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, ISSN 1314-2704, 2015, vol. 2, nr. 5, p. 397-404, WOS:000370814500052.

12. 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 3 Rd International Conference on Quality and Innovation in Engineering and Management, 2014, p. 393-396. WOS:000346410700072.

13. Moşnegutu Emilian, Nedeff Valentin, Panainte- Lehăduş Mirela, Bontaş 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. 2014, 659, p. 521-526, 6th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2014, Code 108589. DOI: 10.4028/www.scientific.net/AMM.659.521 (SCOPUS).

14. Panainte, M.; Caraman, I., Nedeff, V. Inglezakis, V., Lazar, G., **Barsan, N.**, Impact of green products on Romaian consumers, Annals of DAAAM for 2012 & Proceedings of the 23rd International Daaam Symposium - Intelligent Manufacturing And Automation - Focus On Sustainability, 2012, Volume: 23 p. 997-1000, WOS:000392423800230.

15. Bogdan, P. L., Nedeff, V., **Barsan, N.**, Panainte-Lehadus, M., Chitimus, D., Nedeff, F., Tomozei, C., Applications of the GIS and Remote Sensing methods in the Land use and cover maps. Case study: Roman city and the surroundings of the Northern side area, 2022 8th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE), Ruse, Bulgaria, 2022, pp. 1-5, doi: 10.1109/EEAE53789.2022.9831397 (SCOPUS).âî

16. Ioja, I., Tomozei, C., Nedeff, V., Mosnegutu, E., Panainte-Lehadus, M.,

Irimia, O., **Barsan, N.**, Chitimis, D., 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&AE), Ruse, Bulgaria, 2022, pp. 1-5, doi: 10.1109/EEAE53789.2022.9831319 (SCOPUS).

17. Zaharia, A., Nedeff, V., Culea, M., **Barsan, N.**, Tomozei, C., Applications of the Ultrafiltration Membranes in the Industrial Effluents Treatment Processes. A Short Review.2022 8th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE), Ruse, Bulgaria, 2022, pp. 1-7, doi: 10.1109/EEAE53789.2022.9831263. (SCOPUS).

V. Articole BDI

1. Kamilou Ouro-Sama, Gnon Tanouayi, Hodabalo Dheoulaba Solitoke, **Narcis Barsan**, Emilian Mosnegutu,Tchaa Eso-Essinam Badassan, Sadikou Agbere, Koudjo Adje, Valentin Nedeff, Kissao Gnandi Polycyclic Aromatic Hydrocarbons (PAHs) Contamination in Chrysichthys nigrodigitatus Lacépède, 1803 from Lake Togo-Lagoon of Aného, Togo: Possible Human Health Risk Suitable to Their Consumption, International Journal of Environmental Research and Public Health, 2023, vol. 20, no. 3, 1666
2. Emilian-Florin Mosnegutu, Valentin Nedeff, Alexandra-Dana Chitimis, Marcin Jasiński, **Narcis Barsan**, Solid particle characterization. some aspect related to the shape evaluation by using software correlations, Journal of Engineering Studies and Research, 2021, Vol. 27, nr. 1, p. 64-74, ISSN 2068-7559.
3. Emilian Mosnegutu, **Narcis Barsan**, Mirela Panainte-Lehadus, Dana Chitimis, Claudia Tomozei, Influence Of The Crank Mechanism Position In The Motion Of An Oscillating Sieve, Journal of Engineering Studies and Research, 2021, vol. 27 nr. 4, p. 36-43, ISSN 2068-7559
4. Raluca Galita, Petronela Savin, Valentin Nedeff, Ioana Boghian, Mihaela Culea, Elena Nechita, **Narcis Bârsan**, Florin Marian Nedeff, Skills And Challenges On The Labour Market. A Study Regarding The Romanian Graduates'perception On Employability International Journal of Development in Social Sciences and Humanities, 2021, 71, No. 5, no. 2 p. 20-53, ISSN:2455-5142/P-ISSN:2455-7730.
5. Mosnegutu Emilian-Florin, **Barsan Narcis**, Chitimis 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, 2020, vol. 26 nr. 4, p. 61- 68, ISSN 2068-7559.
6. Platon, N., Arus, V.-A., Georgescu, A., Nistor, I., **Barsan, N.**, White Bread Fortified with Calcium from Eggshell Powder, Rev. Chim., 71 (7), 2020, 299- 306, ISSN: 00347752, DOI: 10.37358/RC.20.7.8248.
7. Panainte-Lehadus Mirela, Mosnegutu Emilian-Florin, Nedeff Valentin, **Barsan Narcis**, Chitimis Dana, Rusu Dragos-Ioan, Nicolescu Mihai C., Topan Gheorghe, Experimental Application of the Process Industry Solid Particle's Displacement in a Vertical air Flow, Rev. Chim. vol. 71, no. 6, 2020, p. 9-21,

DOI: 10.37358/RC.20.6.8165.

8. Mosnegutu Emilian-Florin, Nedeff Valentin, **Barsan Narcis**, Sandu Ion, Panainte- Lehadus Mirela, Chitimis Dana, Sandu Ioan Gabriel, Bontas Ovidiu, Rusu Dragos-Ioan, Topan Gheorghe, Application in Process Industry of the Solid Particles Displacement on a Flat Oscillating Surface, Rev. Chim. vol. 71, no. 6, 2020, p. 42-50, DOI: 10.37358/RC.20.6.8168.
9. Cochioreca Alina, Nedeff Valentin, **Barsan Narcis**, Sandu Ion, Mosnegutu Emilian, Dana Chitimis Alexandra, Sandu Andrei Victor, Irimia Oana, Surface Water and Groundwater Quality Evaluation in a Mining Area, Rev. Chim. vol. 71, no. 6, 2020, p. 124-131, DOI: 10.37358/RC.20.6.8177.
10. **Barsan Narcis**, Chitimis Alexandra Dana, Muscalu (Plescan)Oana-Maria, Nedeff Florin Marian, Sandu Ion, Partal Elena, Sandu Andrei Victor, Panainte Lehadus Mirela, Influence of Fertilizers on Soils Used for Oleaginous Crop, REV.CHIM.(Bucharest), 2020, 71, No. 1, p. 223- 238. DOI: 10.37358/RC.20.1.7838.
11. **Barsan Narcis**, Capsa Doina, Moșnegutu Emilian, Nedeff Valentin, Sandu Ion, Chitimis Alexandra Dana, Tomozei Claudia, Sandu Andrei Victor, Correlations on the Air Nitrogen Oxides Pollutant Concentration and Climatic Factors Variations in Bacau City, Rev. Chim. vol. 71, no. 2, 2020, p. 358-364 DOI: 10.37358/RC.20.2.7937.
12. Turcu Mariana, **Barsan Narcis**, Ianculescu Dan, Nedeff Valentin, Chitimis Dana, Panainte-Lehadus Mirela, Mosnegutu Emilian, Organic flocculants applications in the treatment of municipal sludge, ROMAQUA, vol. 146, no. 8, 2020, p. 29-35, ISSN 1453-6986.
13. Chitimis, A.-D., Nedeff, F.M., Sandu, I., Radu, C., **Barsan, N.**, Sandu, I.G., Irimia, O., Mathematical modeling for the accumulation of cadmium, zinc and arsenic from the soil in the case of bulrush plant type, Revista de Chimie, Volume 70, Issue 12, 2019, p. 4566-4573, DOI: 10.37358/RC.19.12.7794.
14. **Barsan Narcis**, Chitimis Dana, Nedeff Florin Marian, Sandu Ion, Mosnegutu Emilian, Sandu Andrei Victor, Tomozei Claudia, Mathematical Correlations of the Variable Parameters Specific for an SBR Experimental Laboratory Plant, REV.CHIM.(Bucharest), 2019, 70, No. 12, p. 4574 – 4578, DOI: 10.37358/RC.19.12.7795.
15. Tataru Laurentiu, Nedeff Valentin, **Barsan Narcis**, Panainte-Lehadus Mirela, Mosnegutu Emilian, Chitimis 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, pp. 46-57.
16. Bibire Luminita, Barsan Narcis, Evaluation of the heating system from an injection molding machine, Journal of Engineering Studies and Research, vol. 24 No. 2, 2018, pp. 15-24.
17. Capsa Doina, Nedeff Valentin, **Barsan Narcis**, Mosnegutu Emilian, Chitimis Dana, Evaluation of meteorological factors influence on benzene accidental pollution. Case study: bacau city 2008, Journal of Engineering Studies and Research, vol. 23 nr. 1, 2017, pp. 12-19.
18. 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, 2017, vol. 23 nr. 4, pp. 14-18.

19. **Barsan Narcis**, Turcu Mariana, Nedeff Valentin, Mosnegutu Emilian, Chitimis Dana, Laboratory applications in wastewater treatment by using flocculation process, Journal of Engineering Studies and Research, 2017, vol. 23 nr. 3, pp. 1-11.
20. Cochiorca Alina, Nedeff Valentin, Fiorucci Adriano, Panainte-Lehăduș Mirela, **Bârsan Narcis**, Irimia Oana, Heavy metals and physico-chemical parameters analysis from the wells in the Buhoci area, Bacau, The Annals of "Dunarea De Jos" University of Galati, Fascicle ix. Metallurgy and Materials Science, 2017, no. 4., p. 17-23.
21. Tătaru Laurențiu, Nedeff Valentin, **Bârsan Narcis**, Panainte Lehăduș Mirela, Chițimuș Dana-Alexandra, 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, 2017, no. 3., p. 39-46, ISSN 1453-083X.
22. Temea Antonina, Panaite-Lehăduș Mirela, **Bârsan Narcis**, Tomozei Claudia, Nedeff Valentin, Study about the Perception of Producers from Romania Regarding the Ecolabel, The Annals of "Dunarea De Jos" University of Galati, Fascicle ix. Metallurgy and Materials Science, 2017, no. 3., p. 33-38, ISSN 1453-083X.
23. Fabian Florina, Nedeff Valentin, Bârsan Narcis, Moșneguțu 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, 2017, no. 3, p. 5-10, ISSN 1453-083X.
24. Issaka Senou, **Bârsan Narcis**, Nedeff Valentin, Some N Antoine, Nacro H Bismarck, Evaluation of the groundwater quality in a closed industrial landfill, Jurnal Journal of Engineering Studies and Research, 2016, vol. 22 nr. 1, pp. 72-80.
25. Mosnegutu Emilian, Nedeff Valentin, Panainte-Lehadus Mirela, **Bârsan Narcis**, Chitimis 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 nr. 2, 2016, pp. 39-48.
26. Bibire Luminita, Barbieru Mihaela-Beatrice, **Barsan Narcis**, Ghenadi Adrian Stelian, Teorethical evaluation of anthropogenic risks in Tazlau river basin, Jurnal Journal of Engineering Studies and Research, 2016, vol. 22 nr. 2, pp. 15-25.
27. Belciu Mihai-Cosmin, Chitimus Alexandra-Dana, Nedeff Valentin, **Bârsan Narcis**, Rusu Dragos, The production capacity of leachate colected from Piatra Neamt landfill, Journal of Engineering Studies and Research, 2016, vol. 22 nr. 1, pp. 15-23.
28. Sifolo S. Coulibaly, Jérôme E. Tondoh, Kouadio I. Kouassi, **Barsan N.**, Nedeff V., BiI.A. Zoro, Vermicomposts improve yields and seeds quality of Lagenaria siceraria in Côte d'Ivoire, International Journal of Agronomy and Agricultural Research, 2016, vol. 8, nr. 3, pp. 26-37.

29. Capșa Doina, **Bârsan Narcis**, Nedeff Valentin, Moșneguțu Emilian, Chițimuș Dana, Evaluation of the ammonia air pollution and climatic factors interactions, case study 2008 Bacau City Romania, Journal of Engineering Studies and Research, 2016, vol. 22 nr. 1, pp. 15-23.
30. Tataru Laurențiu, Nedeff Valentin, **Barsan Narcis**, Panainte-Lehadus Mirela, Mosnegutu Emilian, Chitimis Dana-Alexandra, Studies on the application of hollow fiber membranes in the field of ultrafiltration, Journal of Engineering Studies and Research, 2016, vol. 22 nr. 4, pp. 42- 53.
31. Nedeff Florin Marian, Agop Marcel, Mosnegutu Emilian Florin, **Barsan Narcis**, Evaluation of the reverberation time improvement in a speaking hall, Jurnal Journal of Engineering Studies and Research, 2016, vol. 22 nr. 2, pp. 49-54.
32. Fabian Florina, Nedeff Valentin, Panainte-Lehadus Mirela, **Bârsan Narcis**, Irimia Oana, Racovita Silvia, Environmental impact of water treatment process. A systematic review of evaluation method, Jurnal Journal of Engineering Studies and Research, 2016, vol. 22 nr. 2, pp. 34-39.
33. Holy Holenu Mangenda, Nedeff Valentin, **Barsan Narcis**, Moșneguțu Emilian Florin, Chitimis Dana, Rusu Dragos, Aspects regarding the Kinshasa urban landfills assessment and proposals for sustainable development, Journal of Engineering Studies and Research, 2015, vol. 2, nr. 1, pp. 46-54.
34. Rotaru Mădălin-Ionuț, Nedeff Valentin, Chițimuș Alexandra-Dana, Moșneguțu 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, 2015, vol. 2, nr. 1, pp. 46-54.
35. Dascalu Mihaela-Elena, Mosnegutu Emilian, Nedeff Valentin, Chitimis Alexandra-Dana, **Bârsan Narcis**, Studies concerning the behavior of the suspended solids in the mixing process, Journal of Engineering Studies and Research, 2015, vol. 21 nr. 4, pp. 21-27.
36. Mosnegutu Emilian, Nedeff Valentin, **Bârsan Narcis**, Chitimis Alexandra-Dana, Rusu Dragos, Influence of screening block supporting way on the behaviour of a solid particle on an oscillating surface, Journal of Engineering Studies and Research, 2015, vol. 21 nr. 3, pp. 51-58.
37. Dermouchi Aida, Mossaab Bencheikh-Lehocine, Sihem Arris, Nedeff Valentin, **Barsan Narcis**, Aspects regarding the electrocoagulation applications in the water and wastewater treatment, Journal of Engineering Studies and Research, 2015, vol. 21 nr. 2, pp. 26-33
38. Alcaraz Jessica, Ridoire Marine, Panainte-Lehăduș Mirela, Turcu Mariana, **Bârsan Narcis**, Chițimuș Dana, Irimia Oana, Application of the flocculation process for the municipal sewage sludge treatment, Journal of Engineering Studies and Research, vol. 20, no. 2, 2014, pp. 7-13.
39. Nadabaica Dumitru-Cristinel, Nedeff Valentin, Bibire Luminita, **Bârsan Narcis**, Experimental applications on the influence of internal operation clearance of the faulty rolling bearings upon their remaining lifetime, 2014, Journal of Engineering Studies and Research, vol. 20, no. 1, p. 60-70.
40. Mangenda Holy Holenu, Nedeff Valentin, Kunyima Kakese, **Barsan Narcis**, Mosnegutu Emilian, Tomozei Claudia, Municipal waste management in

Limete, Mont Amba District of Kinshasa, Democratic Republic of the Congo, Journal of Engineering Studies and Research, vol. 20, no. 2, 2014, p. 39-45.

41. Capșa Doina, Nedeff Valentin, Faciu Ema, Lazăr Gabriel, Lazăr Iulia, **Bârsan Narcis**, Aspects of the fog phenomenon in Bacau City, Journal Present Environment and Sustainable Development, vol. 6, no.1, 2012.

42. Capșa Doina, Nedeff Valentin, Vasilică Maria, Lazăr Gabriel, Panainte Mirela, **Bârsan Narcis**, Extreme temperatures and their effects on the human body, Present Environment and Sustainable Development, vol. 6, no. 2, 2012, pp. 387-403.

43. **Bârsan Narcis**, Nedeff Valentin, Lazăr Gabriel, 2011, Current stage of domestic wastewater treatment in small plants, Journal of Engineering Studies and Research, vol. 17, no. 4, 2011, pp. 13-23.

VI. Lucrări în volumele unor conferințe internaționale

1. Moșneguțu Emilian Florin, Belciu Mihai-Cosmin, Nedeff Valentin, Chițimuş Alexandra- Dana, **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.

2. Rotaru Mădălin, Chițimuş Alexandra-Dana, Nedeff Valentin, Moșneguțu Emilian, **Bârsan Narcis**, 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.

3. Nedeff Valentin, Radu Cristian, Moșneguțu Emilia,n Chițimuş Alexandra-Dana, **Bârsan Narcis**, 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. Mosnegutu Emilian, Nedeff Valentin, Panainte Mirela, **Barsan Narcis**, Chitimus Dana, Rusu Dragos, Bontas Ovidiu, The influence of the inclination angle of working surface over behavior of a solid particles on a flat surface oscillating, 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. 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.

6. **Barsan Narcis**, Nedeff Valentin, Moșneguțu 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.

7. **Bârsan, N.**, Nedeff, V. and Lazăr, G., Studies and research on the domestic wastewater treatment in small plants with sequential operation, Proceedings of the Scientific Student Session – SSS'11, 2011, pag. 20 - 29, ISSN 1311-3321, University Angel Kanchev", Ruse, Bulgaria;
8. **Bârsan, N.**, Nedeff, V. and Lazăr, G., Possibilities of mathematical modeling of heat balance in a Sequencing Batch Reactors basin used for domestic wastewater treatment with low flow, Proceedings of the International Conference „Mechanical Engineering in XXI Century”, 2010, pag. 43 - 46, ISBN 978-86-6055-008-0, Nis, Serbia.

VII. Sustineri/participări la conferințe internaționale

1. Mosnegutu Emilian, Chitimus Dana, **Barsan Narcis**, Nedeff Valentin, Rusu Dragos, Vulpe Mihai, Marcin Jasiński, Studies and Researches Regarding the Influence of the Size of Solid Particles Forming a Heterogenous Mix on the Aerodynamic Separation Process, 2020 7th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE) (<http://eeae-conf.uni-ruse.bg/>)
2. **Bârsan Narcis**, Moșneguțu Emilian Florin, Chitimus Dana, Nedeff Florin, Rusu Dragos, Unitila Carolina, Capsa Doina, Panainte Lehăduș Mirela, Tîrtoacă (Irimia) Oana, Filtration Theory and Techniques. A Short Review on the Filtration Process, 2020 7th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE) (<http://eeae-conf.uni-ruse.bg/>)
3. Chitimus Alexandra-Dana, **Bârsan Narcis**, Moșneguțu Emilian Florin, Corobana Alina, Nedeff Valentin, Muscalu Oana-Maria, Partal Elena, Influence of Soil Fertilization Systems and Crop Rotation on Physical and Chemical Properties of the Soil, 2020 7th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE) (<http://eeae-conf.uni-ruse.bg/>).
4. Turcu Mariana, **Barsan Narcis**, Ianculescu Dan, Nedeff Valentin, Chitimus Dana, Panainte-Lehadus Mirela, Mosnegutu Emilian, Aplicații ale floculanților organici în tratarea nămolurilor municipale, Conferința Internațională: Managementul stațiilor de epurare în comunitățile mici și mijlocii, 4 noiembrie 2020, Asociația Română a Apei în cadrul Forumului Regional al Apei Dunăre – Europa de Est <http://conference2020.araexpoapa.ro/index.php/ro/down>.
5. **Barsan Narcis**, Nedeff Valentin, Chitimus Dana, Mosnegutu Emilian, Laboratory application of chemicals products for municipal sludge dewatering, OPROTEH 2019.
6. Panainte-Lehăduș Mirela, **Barsan Narcis**, Irimia Oana, Nedeff Florin Marian, Tomozei Claudia, Chițimiuș Dana, Moșneguțu Emilian, Monitoring and evaluation of the road traffic load in Bacău urban area, Romania, 10th International Conference on Environmental Engineering and Management, September 18 – 21, 2019 Iasi, Romania (http://iceem.ro/wp/wp-content/uploads/2019/09/ICEEM10_extended_program.pdf).
7. Sampah Georges Eblin, Kouakou Seraphin Konan1, Oi Mangoua Jules

Mangoua, Nedeff Valentin, **Barsan Narcis**, Pollution nitrique des eaux souterraines dans la ville de daloa, Centre- Ouest de Côte D'ivoire, OPROTEH 2019.

8. Cochiorca Alina, Fiorucci Adriano, Nedeff Valentin, **Bârsan Narcis**, Moşneguţu Emilian Florin, Dana Chițimuș, Water quality analysis from an mining area. Case study, Targu Ocna salt mine, Romania, 10th International Conference on Environmental Engineering and Management, September 18 – 21, 2019 Iasi, Romania (http://iceem.ro/wp/wp-content/uploads/2019/09/ICEEM10_extended_program.pdf).

9. Tataru Laurentiu, Nedeff Valentin, **Barsan Narcis**, Panainte-Lehadus Mirela, Mosnegutu Emilian, Fabian Florina, Chitimus Dana, A comparative study between water-gap and air-gap distillation membranes for removal of salts from saline water by desalination method, OPROTEH 2018.

10. **Barsan Narcis**, Nedeff Valentin, Chitimus Dana, Mosnegutu Emilian, Mathematical interpretation of the sludge volume index variation in a small SBR plant, OPROTEH 2018.

11. **Barsan Narcis**, Nedeff Valentin, Turcu Mariana, Mosnegutu Emilian, Chitimus Dana, Application on the operating cycles for a small SBR plant used for domestic wastewater treatment, OPROTEH 2016.

12. Capsa Doina, **Barsan Narcis**, Nedeff Valentin, Chitimus Dana, Mosnegutu Emilian, Mathematical evaluation of the air benzene pollutant concentration variation and climatic factors, OPROTEH 2018.

13. **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, The 6th International Conference ECOLOGICAL & ENVIRONMENTAL, 2017 (<http://eec-2017.mrda.md/>).

14. **Bârsan Narcis**, Nedeff Valentin and Moşneguţu Emilian Florin, Research on the heat balance components of a small sbr basin used for domestic wastewater treatment, First International Conference on Moldavian risks from global to local scale, 16-19 May, 2012 Bacău, România, Prezentare poster.

15. Vasilica Maria, Capsa Doina, Covaci Irina, Nedeff Valentin, **Bârsan Narcis**, Research on the causes of torrential rains in the central southern of Moldavian region on 05 september 2007, First International Conference on Moldavian risks from global to local scale, 16-19 May, 2012 Bacău, România, Prezentare poster.

16. Turcu Mariana, Nedeff Valentin, **Bârsan Narcis**, Research on the use of organic flocculants in treating the sludge from the municipal wastewater treatment plants, First International Conference on Moldavian risks from global to local scale, 16-19 May, 2012 Bacău, România, Prezentare poster.

17. Capşa Doina, Nedeff Valentin, Lazăr Gabriel, Panainte Mirela, **Bârsan Narcis**, Studies and research on the influence of the climatic factors on ammonia pollution in Bacau, First International Conference on Moldavian risks from global to local scale, 16-19 May, 2012 Bacău, România, Prezentare poster.

18. Radu Cristian, Nedeff Valentin, **Bârsan Narcis**, Dumitrescu Anca Mihaela, Studies and research on the determination of heavy metals from the

- banks of the Siret river basin, First International Conference on Moldavian risks from global to local scale, 16-19 May, 2012 Bacău, România, Prezentare poster.
19. **Bârsan, N.**, Nedeff, V., Lazăr, G. (2011), Studies and research on the domestic wastewater treatment in small plants with sequential operation, Proceedings of the Scientific Student Session – SSS'11, University Angel Kanchev”, Ruse, Bulgaria.
20. **Bârsan Narcis**, Nedeff Valentin, Lazăr Gabriel (2011), Current stage of domestic wastewater treatment in small plants, Conferința Internațională OPROTEH, modul E20, Universitatea „Vasile Alecsandri” din Bacău, Facultatea de Inginerie.
21. **Bârsan Narcis**, Studii și cercetări cu privire la epurarea apelor uzate menajere cu debit mic, Salonul regional al cercetării “EXPOTEHNICA”, Autoritatea Națională Pentru Cercetare Științifică și Enterprise Europe Network-Ro Bacău, Central Plaza Bacău, 07 - 09 iulie 2011.
22. **Bârsan Narcis**, Nedeff Valentin, Lazăr Gabriel, Studies and research for increase treatment capacity of domestic wastewater in small plants, International Conference on environmental Science & Technology CEST (ISI), 8 - 10 september 2011, Session 20, Rhodes Island, Dodecanese, Greece.
23. **Bârsan, N.**, Nedeff, V., Lazăr, G. (2010), Possibilities of mathematical modeling of heat balance in a Sequencing Batch Reactors basin used for domestic wastewater treatment with low flow, International Conference „Mechanical Engineering in XXI Century”, 25 – 26 November, Nis, Serbia.

VIII. Alte activități

1. Contracte de cercetare cu agenți economici

Membru/director în echipa a peste 15 de contracte de cercetare cu agenți economici.

2. Proiecte

Membru în echipa a peste 15 proiecte de tip: FDI, POCU, ROSE etc.

3. Membru în colectivul editorial al jurnalelor:

- Managing Editor for Journal of Engineering Studies and Research (ISSN 2068-7559).
- Editorial Board member for International Journal of Conservation Science (ISSN: 2067-533X; eISSN: 2067-8223).
- Scientific Council member for Journal of Engineering Energy and Informatics (ISSN 2720-4162).
- Editorial Advisory Board for Revista de Chimie (ISSN Online 2668-8212, ISSN Print: 1582-9049).

4. Peste 220 de recenzii la articole științifice, cuantificate în platforma Web of Science Researcher (N-7433-2014).

5. Recenzor pentru peste 50 de jurnale internaționale, conform Web of Science Researcher (N-7433-2014).

6. Peste 10 mobilități de tip Erasmus + și Erasmus K.

01.09.2023

Conf.dr.ing. Narcis BÂRSAN