

Lista de lucrări

Conf.dr.ing.habil. Narcis BÂRSAN

I. Lista celor 10 lucrări considerate relevante pentru realizările profesionale proprii

1. **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.
2. **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.
3. 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.
4. 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.
5. 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.
6. Lavinia Misaila, **Narcis Barsan***, Florin Marian Nedeff, Dumitra Raducanu, Cristian Radu, Luminita Grosu, Oana-Irina Patriciu, Lucian Gavrila, Adriana-Luminita Finaru, Perspectives for Quality Evaluation of Some Mineral Waters from Slanic Moldova, Water, vol. 14, no. 2942, WOS:000867160200001.
7. 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.
8. 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.
 9. Grzegorz Przydatek, Józef Ciula, **Narcis Barsan***, Diana Mirila, Emilian Mosnegutu, Groundwater Quality Analysis: Assessing the Impact of a Closed Landfill—A Case Study on Physico-Chemical and Microplastic Contaminants, Applied Sciences, 2025, Volumul 15, Numărul 15, art.no. 8223. WOS:001549074400001.
 10. Hanen Filali, Malak Moussa, **Narcis Barsan***, Valentin Nedeff, Oana Irimia, Mohamed Hachicha, A Cyclic Graywater Treatment Model for Sustainable Wastewater Management Applied in a Small Scale, Applied Sciences, 2025, Volumul 15, Numărul 5, art no. 2836. WOS:001442341700001.

II. Teza de doctorat

”Studii și cercetări privind creșterea gradului de epurarea a apelor uzate menajere în stații de epurare de capacitate mică”

Conducător de doctorat: prof.univ.dr.ing. Nedeff Valentin

Susținută la data de 19.10.2011

Confirmată prin ordinul de ministru 6697 din 21.12.2011

III. Brevete de invenție

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 invenție 133608 B1, 2022, Clasificări internaționale:C08G 75/20 (2006.01), B01D 61/20 (2006.01), B01D 39/16 (2006.01), WO 02/05937 A2.

IV. Cărți

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2. Luminița Bibire, **Narcis Bârsan**, Evaluarea duratei de viață remanente a echipamentelor. Suport teoretic pentru orele de curs și aplicații pentru uzul studenților, Alma Mater, 2023, ISBN 978-973-1833-80-4, 299 pag.
3. **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.
4. 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.
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6. Nedeff Valentin, Chițimșu Alexandra-Dana, Moșneguțu Emilian, Panainte Lehaduș 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.
7. Nedeff Valentin (coord.), Chițimșu 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.
8. **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.

V. Articole/studii in extenso, publicate în reviste din fluxul științific internațional principal

A. 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. 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
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5. 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
6. 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
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9. Mariana Turcu, Narcis Bârsan, Emilian Moșneguțu, Mihaela Dascălu, Dana Chițimuș, 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.
10. 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
11. 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
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 16. 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
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 19. 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
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 22. 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
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24. Lavinia Misaila, Florin Marian Nedeff, Narcis Barsan, Ioan Gabriel Sandu, Luminita Grosu, Oana-Irina Patriciu, Lucian Gavrilă, Adriana-Luminita Finaru, WATERSHED - Android Application for the Mineral Waters Classification, *REV.CHIM.(Bucharest)*, vol. 70, No. 6, 2019, p. 2212-2217. WOS:000475860100067
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26. Alexandra Dana Chitimus, Valentin Nedeff, Ion Sandu, Cristian Radu, Emilian Mosnegutu, Ioan Gabriel Sandu, Narcis Barsan, Mathematical Modeling for the Absorption Capacity of Heavy Metals from the Soil in the Case of *Phragmites Australis* Plant Species, *REV.CHIM.(Bucharest)*, vol. 70, No. 7, 2019, p. 2545-2551. WOS:000485843500050
27. 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
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 54. Misaila, L., Raducanu, D., Barsan, N., Alexa, I.C., Patriciu, O.I., Grosu, L., Assessment of the microbiota of some mineral water from 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
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