

LISTA DE LUCRĂRI

Asist.univ.dr.ing. Bârsan Narcis

I. Articole publicate în reviste cotate ISI (titlul lucrării, autorii în ordine, revista, FI, SRI):

1. Heat balance components of a small sequencing batch reactor applied for municipal wastewater treatment, Narcis Bârsan, Valentin Nedeff, Emilian Florin Moșneguțu, Mirela Panainte, Environmental Engineering and Management Journal, Vol.11, No.12, 2131-2138;
2. A case study of heavy rainfall in the central-southern Moldavia region, Romania, Maria Vasilica, Doina Capsa, Irina Covaci, Valentin Nedeff, Narcis Bârsan, Mirela Panainte, Environmental Engineering and Management Journal, Vol.11, No.12, 2149-2156;
3. Efficiency of filters with different filtering materials: comparative study in water treatment, Oana Tirtoaca Irimia, Claudia Tomozei, Mirela Panainte, Emilian Florin Mosnegutu, Narcis Barsan, Environmental Engineering and Management Journal, January 2013, Vol.12, No. 1, 35-39.
4. Application of organic flocculants for the treatment of sludge from municipal wastewater treatment plants, Mariana Turcu, Valentin Nedeff, Narcis Barsan, Emilian Florin Mosnegutu, Mirela Panainte, Environmental Engineering and Management Journal, January 2013, Vol.12, No. 1 163-166.
5. Application of synthetic chemical compounds in petroleum sludge treatment, Mariana Turcu, **Narcis Bârsan**, Oana Irimia, Ion Joița, Mihai Belciu, Environmental Engineering and Management Journal, 2014, Vol.13, No. 7, 1751-1756;
6. Modelling wastewater treatment process in a small plant using a sequencing batch reactor (SBR), **Narcis Barsan**, Ion Joița, Marius Stanila, Cristian Radu, Mihaela Dascalu, Environmental Engineering and Management Journal, 2014, Vol.13, No. 7, 1561-1566;
7. Experimental study of noise levels generated by rolling bearings in different stages of deterioration, Dumitru-Cristinel Nadabaica, Stanisław Radkowski, Valentin Nedeff, Gigel Paraschiv, **Narcis Barsan**, Mihai C Nicolescu, Environmental Engineering and Management Journal, 2014, Vol.13, No. 7, 1631-1639

II. Articole publicate în reviste indexate BDI:

1. 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, ISSN 2068-7559.
2. Capșa Doina, Nedeff Valentin, Faciu Ema, Lazăr Gabriel, Lazăr Iulia and Bârsan Narcis, Aspects of the fog phenomenon in Bacau City, Journal Present Environment and Sustainable Development, Volume 6, no.1/2012, ISSN: 1843-5971
3. Extreme temperatures and their effects on the human body, Doina Capșa, Valentin Nedeff, Maria Vasilică, Lazăr Gabriel, Panainte Mirela, Bârsan Narcis, Present Environment and Sustainable Development, VOL. 6, no. 2/2012, pp. 387-403, ISSN 1843-5971.
4. Experimental applications on the influence of internal operation clearance of the faulty rolling bearings upon their remaining lifetime, 2014, Dumitru-Cristinel Nadabaica, Valentin

Nedeff, Luminita Bibire, **Narcis Bârsan**, Journal of Engineering Studies and Research, vol. 20, no. 1, p. 60-70, ISSN 2068-7559.

5. Municipal waste management in Limete, Mont Amba District of Kinshasa, Democratic Republic of the Congo, 2014, Holy Holenu Mangenda, Valentin Nedeff, Kakese Kunyima, Narcis Barsan, Emilian Mosnegutu, Claudia Tomozei, Journal of Engineering Studies and Research, vol. 20, no. 2, p. 39-45, ISSN 2068-7559.

6. Application of the flocculation process for the municipal sewage sludge treatment, 2014, Jessica Alcaraz, Marine Ridoire, Mirela Panainte-Lehăduș, Mariana Turcu, Narcis Bârsan, Dana Chițimuș, Oana Irimia, Journal of Engineering Studies and Research, vol. 20, no. 2, p. 7-13, ISSN 2068-7559.

III. Articole publicate în volumele unor conferințe internaționale:

1. Bârsan, N., Nedeff, V. and Lazăr, G. (2010), 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”, pag. 43 - 46, ISBN 978-86-6055-008-0, Nis, Serbia;

2. Bârsan, N., Nedeff, V. and 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, pag. 20 - 29, ISSN 1311-3321, University Angel Kanchev”, Ruse, Bulgaria;

3. Bârsan Narcis, Nedeff Valentin, Lazăr Gabriel (2011), Current stage of domestic wastewater treatment in small plants, Conferința Internațională OPROTEH, Universitatea „Vasile Alecsandri” din Bacău, Facultatea de Inginerie, ISBN 978-606-527-131-9.

4. Studies and research concerning the displacement of solid particle on an oscillatory flat surface, Moșneguțu Emilian, Valentin Nedeff, Ovidiu Bontaș, Narcis Bârsan, Dana Chițimuș, Panainte Mirela, Tomozei Claudia, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013, ISBN 978-606-527-293-4.

5. The evolution of green products market in romania, Mirela Panainte, Valentin Nedeff, Gabriel Lazar, Iuliana Caraman, Vasilis Inglezakis, Narcis Bârsan, Emilian Moșneguțu, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013, ISBN 978-606-527-293-4.

6. Mathematical modelling for liquid pollutants’ crossing time in a soil sample, Chițimuș Alexandra-Dana, Nedeff Valentin, Moșneguțu Emilian Florin, Bârsan Narcis, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013, ISBN 978-606-527-293-4.

7. Studies and research on the influence of climatic factors on ammonia pollution in Bacau city, Doina Capșa, Valentin Nedeff, Narcis Barsan, Mirela Panainte, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013, ISBN 978-606-527-293-4.

8. Application of organic flocculants for the treatment of rezidual Industrial sludge, Mariana Turcu, Valentin Nedeff, Narcis Bârsan, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013, ISBN 978-606-527-293-4.

9. A mathematical model on the efficiency of a small SBR wastewater treatment plant depending on operating times and wastewater temperature, Narcis Bârsan, Valentin

Nedeff, Mariana Turcu, Emilian Moşneguţu, Dana Chiţimuş, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013, ISBN 978-606-527-293-4.

10. Exploitation of geo-materials in kinshasa's city and its environmental impact, Holenu Mangenda Holy, Kakese Kunyima C., Valentin Nedeff, Narcis Barsan, Emilian Moşneguţu, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013, ISBN 978-606-527-293-4.

11. Study regarding the monitoring emissions from combustion plants at SC CET SA Bacau platform, Mirela Panainte, Valentin Nedeff, Marius Stănilă, Narcis Bârsan, Emilian Moşneguţu, Claudia Tomozei, Oana Irimia, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013, ISBN 978-606-527-293-4.

12. Physico-chemical and microbiological characterization of sewage sludge resulted from wastewater treatment plant of Bacau county, Dumitra Raducanu, Irina Ifrim, Alisa Arus, Narcis Bârsan, Valentin Nedeff, Iuliana Lazar, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013, ISBN 978-606-527-293-4.

13. Study on optimizing operation of a treatment plant wastewater small Capacity, Marius Angheluţ, Gabriel Lazăr, Narcis Bârsan, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013, ISBN 978-606-527-293-4.

14. La gestion integree et durable des decharges a Kinshasa et l'amenagement de l'espace urbain, Holenu Mangenda , Valentin Nedeff , Narcis Barsan, Proceedings, Le troisième colloque francophone pluridisciplinaire sur les matériaux, l'environnement et l'electronique, 22-25 May, Bacău 2013.

15. The current stage of ex situ technologies for soil depollution by means of physical and thermal procedures, Belciu Mihai, Valentin Nedeff, Chiţimuş Alexandra Dana, Emilian Moşneguţu, Bârsan Narcis, Proceedings of the Union of Scientist, Fifth Conferince, Energy efficiency and agricultural engineering, 17-18 May 2013, Ruse Bulgaria ISSN 1311-9974.

16. Theoretical studies regarding to disposal and utilization of the sewage sludge from municipal wastewater treatment plants, Raducanu (Manea) Dumitra, Nedeff Valentin, Barsan Narcis, Chitimus Alexandra Dana, Mosnegutu Emilian Florin, Proceedings of the Union of Scientist, Fifth Conferince, Energy efficiency and agricultural engineering, 17-18 May 2013, Ruse Bulgaria ISSN 1311-9974.

IV. Articole publicate în volumele unor conferinţe internaţionale cotate ISI:

1. Bârsan Narcis, Nedeff Valentin, Lazăr Gabriel (2011), Studies and research for increase treatment capacity of domestic wastewater in small plants, Proceedings of the 12TH Internaţional Conference On Environmental Science & Technology CEST (ISI), pag. 22, ISBN 978-960-7475-49-7, Rhodes Island, Dodecanese, Greece.

2. Impact of green products on romanian consumers, Panainte, M., Nedeff V., Caraman I., Inglezakis V., Lazăr G., Bârsan N., Annals of DAAAM for 2012 & Proceedings of the 23rd International DAAAM Symposium, Volume 23, No.1, ISSN 2304-1382 ISBN 978-3-901509-91-9.

V. Articole publicate în volumul "Proiectul BRAIN - rezultate obţinute la Universitatea "Vasile Alecsandri" din Bacău", februarie 2011, ISBN 978-606-527-111-1

1. Bârsan Narcis (2011), Studii și cercetări privind procesul de epurare a apelor uzate menajere în stații de epurare de mică capacitate cu funcționare secvențială, „Proiectul BRAIN – rezultate obținute, Editura Alma Mater Bacău, pag. 19-35, ”ISBN 978-606-527-111-1.

VI. Lucrări prezentate în cadrul unor conferințe și manifestări științifice

1. Bârsan, N., Nedeff, V. and 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.
2. Bârsan, N., Nedeff, V. and 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.
3. 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;
4. Bârsan Narcis (2011), 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;
5. Bârsan Narcis, Nedeff Valentin, Lazăr Gabriel (2011), Studies and research for increase treatment capacity of domestic wastewater in small plants, Internațional Conference On Environmental Science & Technology CEST (ISI), 8 - 10 september 2011, Session 20, Rhodes Island, Dodecanese, Greece.
6. Bârsan Narcis, Nedeff Valentin and Moșneguțu Emilian Florin (2012), 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;
7. Vasilica Maria, Capsa Doina, Covaci Irina, Nedeff Valentin and Bârsan Narcis (2012), 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;
8. Turcu Mariana, Nedeff Valentin and Bârsan Narcis (2012), 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;
9. Capsa Doina, Nedeff Valentin, Lazăr Gabriel, Panainte Mirela and Bârsan Narcis (2012), 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;
10. Radu Cristian, Nedeff Valentin, Bârsan Narcis and Dumitrescu Anca Mihaela (2012), 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.
11. A mathematical model on the efficiency of a small SBR wastewater treatment plant depending on operating times and wastewater temperature, Narcis Bârsan, Valentin Nedeff, Mariana Turcu, Emilian Moșneguțu, Dana Chițimuş, Proceedings of the X th International Conference Constructive and Tehnological Design Optimization in the Machines Building Field, 23-25 May, Bacău 2013.

12. Application of organic flocculants for the treatment of residual industrial sludge, Mariana Turcu, Valentin Nedeff, Narcis Bârsan, OPROTEH, 2013.
13. Exploitation of geo-materials in Kinshasa's city and its environmental impact, Holy, Kakese Kunyima C., Valentin Nedeff, Barsan Narcis, Emilian Moşneguţu OPROTEH, 2013.
14. A mathematical model on the efficiency of a small sbr wastewater treatment plant depending on operating times and wastewater temperature, Narcis Bârsan, Valentin Nedeff, Mariana Turcu, Emilian Moşneguţu, Dana Chiţimuş OPROTEH, 2013.
15. Studies and research on the influence of climatic factors on ammonia pollution in Bacau City, Doina Capşa, Valentin Nedeff, Narcis Bârsan, Mirela Panainte, OPROTEH, 2013.
16. Integrated management and sustainable waste Kinshasa and management of urban space Holenu Mangenda Holy, Valentin Nedeff, Narcis Barsan, Kakese Kunyima, PLUME, 2013.
17. Application of the flocculation process for the industrial wastewater treatment Mariana Turcu, Narcis Bârsan, Valentin Nedeff, NATURAL AND ANTHROPIC RISKS, ICNAR 2014.
18. Climatic factors influence to the nitrogen oxides (NOX) pollution, in Bacau City, in 2010, Doina Capşa, Valentin Nedeff, Narcis Bârsan, , NATURAL AND ANTHROPIC RISKS, ICNAR 2014.
19. Application of the coagulation process for the municipal sewage sludge treatment, Jessica Alcaraz, Marine Ridoire, Valentin Nedeff, Mirela Panainte-Lehăduş, Mariana Turcu, Narcis Barsan NATURAL AND ANTHROPIC RISKS ICNAR2014.
20. Etude d'impact de l'érosion ravinante sur l'habitat et l'environnement urbains de kinshasa, Holenu Mangenda Holy, Lelo Nzuzi Francis, Valentin Nedeff, Narcis Barsan, NATURAL AND ANTHROPIC RISKS- ICNAR, 2014.
21. Theoretical studies regarding to disposal and utilization of the sewage sludge from municipal wastewater treatment plants, Raducanu (Manea) Dumitra Nedeff Valentin Barsan Narcis Chitimus Alexandra Dana Mosnegutu Emilian, International Conference on Energy Efficiency and Agricultural Engineering, 2014.
22. Climatic factors influences to the ammonia air pollution, case study 2009 bacau city romania, Doina Capşa Valentin Nedeff, Narcis Barsan, Mediterranean Conference for Academic Disciplines, 2013.

VII. Burse de studii doctorale, postdoctorale și stagii de pregătire internaționale

1. Stagiul de pregătire doctorală, Universitatea „Politecnico di Torino”, Italia, Departamentul de Ingineria Mediului și Geotehnologie (DITAG), sub îndrumarea distinsului prof. dr. Giuseppe Genon, martie – iunie 2010, conform invitației cu numărul 1649 din 12.02.2010 și a deciziei nr. 77 din 18.02.2011.

VIII. Contracte de cercetare

1. Contract de cercetare Nr. 1/2010, Obiectul contractului: "Cercetări privind modul de funcționare a stației de epurare tip FIL D,EAU și stabilirea cauzelor ce determină depășirea limitelor admise și întocmirea sau reactualizarea după caz a documentației tehnice necesare realizării unei exploatare eficiente", părțile contractante: Societatea Comercială „BEL ROM CINCI” S.R.L și Universitatea ”Vasile Alecsandri” din Bacău.
2. Contract nr. 2/2009, Obiectul contractului: “Cercetări privind modul de încadrare a imisiilor de noxe și zgomot provenite de la Stația de betoane ERUMECAR, model EMA – 12042 în perioada probelor de punere în funcțiune și stabilirea eventualelor măsuri necesare”, efectuarea măsurătorilor de zgomot și noxe la limita incintei S.C. Rustrans S.R.L.

3. Convergența pregătirii universitare cu viața activă în domeniul economic, POSTDRU/90/2.1/S/63960, Beneficiar Ministerul Educației Naționale, Funcția în cadrul proiectului: Expert logistică.
4. Contract de cercetare industrială, nr. 313/01.10.2012, Moșneguțu Emilian, Nedeff Valentin, Panainte Mirela, **Bârsan Narcis**, Chițimuș Dana, Tomozei Claudia, S.C. ROMCHIM PROTECT S. A. Filipești, 2000 €.
5. Contract de servicii de consultanță în domeniul inovării, membru;
6. Cercetări privind evaluarea impactului asupra mediului a activității de la S.C. ECO Sistem Proiect S.R.L. Bacău, **membru**;
7. Proiect LIFE+ 08/INF/RO/507 – GREENPRO, membru;
8. Convergența pregătirii universitare cu viața activă în domeniul economic, **membru**;
9. Contract de cercetare cu SC ECO Sistem Proiect S.R.L. Bacău, Studii și cercetări privind epurarea apelor uzate și a nămolurilor de epurare, nr. 17/27.10.2014, **director de contract**.

IX. Articole în curs de apariție

1. CLIMATIC FACTORS INFLUENCE TO THE NITROGEN OXIDES (NOX) POLLUTION, IN BACAU CITY, IN 2010, Doina Capșa, Narcis Bârsan, Daniel Felegeanu, Marius Stănilă, Ioan Joița
2. APPLICATION OF THE FLOCCULATION PROCESS FOR THE INDUSTRIAL WASTEWATER TREATMENT, Mariana Turcu, Narcis Bârsan, Mihaela Dascălu, Dana Chițimuș, Cristian Radu

X. Articole în revizuire

Increasing the wastewater treatment capacity of small Sequencing Batch Reactor treatment plants using sequential operation, Journal: Environmental Engineering Science, Indexat ISI.

XI. Cărți

Bârsan Narcis, Nedeff Valentin, Moșneguțu Emilian, Lazăr Gabriel, Epurarea apelor uzate menajere în stații de epurare de capacitate mică, Editura Alma Mater Bacău, ISBN 978-606-527-213-2.

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Asist. univ. dr. ing. BÂRSAN NARCIS