



UNIVERSITATEA „VASILE ALECSANDRI” din BACAU

Facultatea de Inginerie

Calea Marasesti, Nr. 157, Bacau, 600115, Tel./Fax +40 234 580170

<http://inginerie.ub.ro>; e-mail: decaning@ub.ro



LISTA LUCRĂRILOR PUBLICATE

Ș. I. dr. ing. Irimia Oana

I. Lista lucrărilor considerate relevante pentru realizările profesionale proprii

1. Hanen Filali, Narcis Barsan, Georg Hörmann, Valentin Nedeff, **Oana Irimia**, Florin Nedeff, Mohamed Hachicha, Greywater Vertical Treatment and Possibility of Reuse in the Fields from Peri-Urban Area, *Agronomy*, vol. 13, no. 3, 940; 2023; FI 3,7; DOI: 10.3390/agronomy13030940; eISSN 2073-4395; WOS: 000952799300001.
2. **Oana Irimia**, Mirela Panaite-Lehadus, Claudia Tomozei, Emilian Mosnegutu, Grzegorz Przydatek, Origin-destination traffic survey—Case study: data analyse for Bacau Municipality, *Sustainability*, vol. 15, no. 6, 4975, 2023; FI 3,889; <https://doi.org/10.3390/su15064975>; WOS:000967792200001;
3. Przydatek Grzegorz, Mosnegutu Emilian, Cabala Adrianan, **Irimia Oana**, Hazardous Waste Advanced Management in a Selected Region of Poland, *Processes*, vol. 10, no. 10, 2032; 2022; FI 3,5; <https://doi.org/10.3390/pr10122485>; WOS:000902812200001;
4. **Irimia Oana**, Przydatek Grzegorz, Panainte-Lehadus Mirela, Tomozei Claudia, Mosnegutu Emilian Gawron Piotr, Indicators of impact selected municipal units on the air quality—Case Study from Poland and Romania, *Processes*, vol. 10, no. 12, 2485; 2022; FI 3,328; <https://doi.org/10.3390/pr10122485>; WOS:000902812200001;
5. **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 & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry*, vol. 21, no. 2, p. 271 – 278, 1582-540X, 2020; FI 0; <https://pubs.ub.ro/?pg=revues&rev=csc6&num=202002&vol=2&aid=5111>; WOS:000546789300012;
6. Mosnegutu Emilian Florin, Panainte-Lehadus Mirela, Nedeff Florin, **Tirtoaca Oana**, Tomozei Claudia, Waste management evaluation in the context of sustainable development. Case study Vasile Alecsandri University of Bacau, *International Journal of Conservation Science*, vol. 11, no. 1, p. 179-188; 2020; https://ijcs.ro/public/IJCS-20-17_Mosnegutu.pdf; WOS:000520030000017;
7. Narcis Barsan, Dana Chitimus, Florin Marian Nedeff, Ion Sandu, Mirela Panainte Lehadus, Andrei Victor Sandu, **Oana Irimia Tartoaca**, Experimental Application of a Laboratory SBR Plant Used for Domestic Wastewater Treatment, *REV.CHIM.(Bucharest)*, vol. 70, nr. 11, 2019, p. 4098-4101, FI 0, WOS:000503185300067

8. **Tirtoaca (Irimia) Oana**, Mirela Panainte Lehadus, Nedeff Valentin, Sandu Ion, Tomozei Claudia, Cretu Valentin Vasile; Sandu Andrei Victor, Experimental results regarding the groundwater quality in Bacau City, Romania, Revista de Chimie, Bucharest, vol. 70, no. 9, p. 3378-3382, 2019, FI 0; <https://doi.org/10.37358/RC.19.9.7553>; WOS:000489958900060;
9. Alina Cochiorca, Narcis Barsan, Florin Marian Nedeff, Ion Sandu, Emilian Florin Mosnegutu, Mirela Panainte Lehadus, Dana Chitimus, 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, nr. 10, 2019, p. 3678-3680, FI 0, WOS:000500795900049
10. **Oana Tirtoaca Irimia**, Claudia Tomozei, Mirela Panainte, Emilian Florin Mosnegutu, Narcis Barsan - Efficiency of filters with different filtering materials: comparative study in water treatment, Environmental Engineering and Management Journal, vol. 12, no. 1, p. 35 – 40; January 2013; FI 1,1; DOI:10.30638/eemj.2013.005; WOS:000317803300005;

II. Teza de doctorat

1. “**Studii și cercetări privind posibilitățile de creștere a calității apei pentru diferite tipuri de cerințe**”, Universitatea „Vasile Alecsandri” din Bacău, Facultatea de Inginerie, 11 noiembrie 2011.

III. Cărți și capitole din cărți

1. Nedeff Valentin, Chitimus Alexandra-Dana, Mosnegutu Emilian, Panainte Lehadus Mirela, Tomozei Claudia, **Irimia Oana**, Barsan Narcis, Nedeff Florin Marian, Proceduri de lucru pentru analiza solului și a altor materiale, vol. 2, Editura Alma Mater Bacau 2018, ISBN 978-606-527-581-2, 978-606-527-583-6, 131 pag.;
2. Valentin Nedeff, Claudia Tomozei, **Irimia Oana**, Nedeff Florin Marian, Panainte Lehadus Mirela, Barsan Narcis, Chitimus Alexandra-Dana, Mosnegutu Emilian, Proceduri de lucru pentru analiza calitatii aerului și a altor compusi gazoși, vol. 1, Editura Alma Mater Bacau, 2018, ISBN 978-606-527-593-5;
3. Valentin Nedeff, Barsan Narcis, **Irimia Oana**, Chitimus Alexandra-Dana, Mosnegutu Emilian, Panainte Lehadus Mirela, Claudia Tomozei, Nedeff Florin Marian, Proceduri de lucru pentru analiza apelor și a altor compusi lichizi, vol. 1, Editura Alma Mater Bacau, 2018, ISBN 978-606-527-589-8;
4. Valentin Nedeff, Chitimus Alexandra-Dana, Mosnegutu Emilian, Panainte Lehadus Mirela, Claudia Tomozei, **Irimia Oana**, Barsan Narcis, Nedeff Florin Marian, Proceduri de lucru pentru analiza solului și a altor materiale, vol. 1, Editura Alma Mater Bacau, 2017, ISBN 978-606-527-582-9;
5. **Oana Țirtoacă (Irimia)**, Valentin Nedeff, Mirela Panainte, Gabriel Lazar. “Potabilizarea apelor. Procedee și tehnici de filtrare”, Editura Alma Mater, Bacau, 2014, ISBN 978-606-527-355-9.

6. **Oana Țirțoacă (Irimia)**, Studii și cercetări privind posibilitățile de creștere a calității apei, „Proiectul BRAIN – rezultate obtinute, Editura Alma Mater Bacau, februarie 2011, ISBN 978-606-527-111-1, p. 81-91;

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

IV.1. Lucrări publicate în reviste cotate ISI

1. Dana Chitimus, Valentin Nedeff, Emilian Mosnegutu, Narcis Barsan, **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, 15, 8729, FI 3, 9; WOS:001005352300001
2. Grzegorz Przydatek, Andrzej Ryniewicz, **Oana Irimia**, Claudia Tomozei, Emilian Mosnegutu, Marcin Bodziony, Analysis of noise levels in typical passenger cars, Sustainability, vol. 15, p. 7910, 2023; FI: 3,889; <https://doi.org/10.3390/su15107910>;
3. Goldan Elena; Nedeff Valentin; Barsan Narcis; Culea Mihaela; Panainte-Lehadus Mirela; Mosnegutu Emilian; Tomozei Claudia; Chitimus Dana; **Irimia Oana**, Assessment of manure compost used as soil amendment-A review, Process, vol. 11, no. 4, 1167; 2023; FI 3,5; DOI: 10.3390/pr11041167; eISSN 2227-9717; WOS:000977626500001.
4. Hanen Filali, Narcis Barsan, Georg Hörmann, Valentin Nedeff, **Oana Irimia**, Florin Nedeff, Mohamed Hachicha, Greywater Vertical Treatment and Possibility of Reuse in the Fields from Peri-Urban Area, Agronomy, vol. 13, no. 3, 940; 2023; FI 3,7; DOI: 10.3390/agronomy13030940; eISSN 2073-4395; WOS: 000952799300001;
5. **Oana Irimia**, Mirela Panainte-Lehadus, Claudia Tomozei, Emilian Mosnegutu, Grzegorz Przydatek, Origin-destination traffic survey—Case study: data analyse for Bacau Municipality, Sustainability, vol. 15, no. 6, 4975, 2023; FI 3,889; <https://doi.org/10.3390/su15064975>; WOS:000967792200001;
6. Przydatek Grzegorz, Mosnegutu Emilian, Cabala Adrianan, **Irimia Oana**, Hazardous Waste Advanced Management in a Selected Region of Poland, Processes, vol. 10, no. 10, 2032; 2022; FI 3,5; <https://doi.org/10.3390/pr10122485>; WOS:000902812200001;
7. **Irimia Oana**, Przydatek Grzegorz, Panainte-Lehadus Mirela, Tomozei Claudia, Mosnegutu Emilian Gawron Piotr, Indicators of impact selected municipal units on the air quality—Case Study from Poland and Romania, Processes, vol. 10, no. 12, 2485; 2022; FI 3,328; <https://doi.org/10.3390/pr10122485>; WOS:000902812200001;
8. Emilian Moșneguțu, Claudia Tomozei, Mirela Panainte-Lehadus, Dana Chitimus, **Oana Irimia**, Geometric calculation of the influence of an oscillating sieve's actuation mechanism position on its motion, Processes, vol. 10, no. 9, p. 1760; 2022; FI 3,328; <https://doi.org/10.3390/pr10091760>; WOS:000857647700001;
9. Mirela Panainte-Lehăduș, Emilian Moșneguțu, Narcis Bârsan, Gabriela Andrioai, Claudia Tomozei, **Oana Irimia**, Mathematical perspectives in the variable texture products cutting process, Processes, vol. 10, no. 8, 1603, 2022; FI 3,328; <https://doi.org/10.3390/pr10081603>; WOS:000845796500001;

10. Fabian Florina, Nedeff Valentin, Barsan Narcis, Panainte-Lehadus Mirela, Mosnegutu Emilian Florin, Cotirlet Paul Claudiu, Chitimus Dana, Tomozei Claudia, **Irimia Oana**, 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, 2021; FI 0,618; https://www.prt-parlar.de/download_feb_2021/; WOS:000704955000039;
11. 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, vol. 30, no. 5, p. 5521-5528, 2021; IF 0,618; https://www.prt-parlar.de/download_feb_2021/; WOS:000658173700091;
12. **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 & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry, vol. 21, no. 2, p. 271 – 278, 1582-540X, 2020; FI 0; <https://pubs.ub.ro/?pg=revues&rev=csc6&num=202002&vol=2&aid=5111>; WOS:000546789300012;
13. Mosnegutu Emilian Florin, Panainte-Lehadus Mirela, Nedeff Florin, **Tirtoaca Oana**, Tomozei Claudia, Waste management evaluation in the context of sustainable development. Case study Vasile Alecsandri University of Bacau, International Journal of Conservation Science, vol. 11, no. 1, p. 179-188; 2020; [https://ijcs.ro/public/IJCS-20-17_Mosnegutu.pdf](https://ijcs.ro/public/IJCS-20-17-Mosnegutu.pdf); WOS:000520030000017;
14. Narcis Barsan, Dana Chitimus, Florin Marian Nedeff, Ion Sandu, Mirela Panainte Lehadus, Andrei Victor Sandu, **Oana Irimia Tartoaca**, Experimental Application of a Laboratory SBR Plant Used for Domestic Wastewater Treatment, REV.CHIM.(Bucharest), vol. 70, nr. 11, 2019, p. 4098-4101, FI 0, WOS:000503185300067
15. **Tirtoaca (Irimia) Oana**, Mirela Panainte Lehadus, Nedeff Valentin, Sandu Ion, Tomozei Claudia, Cretu Valentin Vasile; Sandu Andrei Victor, Experimental results regarding the groundwater quality in Bacau City, Romania, Revista de Chimie, Bucharest, vol. 70, no. 9, 2019, p. 3378-3382, FI 0; <https://doi.org/10.37358/RC.19.9.7553>; WOS:000489958900060;
16. Alina Cochiorca, Narcis Barsan, Florin Marian Nedeff, Ion Sandu, Emilian Florin Mosnegutu, Mirela Panainte Lehadus, Dana Chitimus, **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, nr. 10, 2019, p. 3678-3680, FI 0, WOS:000500795900049;
17. 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, Revista de Chimie, Bucharest, ISSN 2537-5733, 2019, 70, no. 8, p. 2869-2872; FI 0; <https://doi.org/10.37358/RC.19.8.7446>; WOS:000489685600035;
18. Oana-Maria Muscalu (Plescan), Florin-Marian Nedeff, Elena Partal, Emilian Mosnegutu, Mirela Panainte Lehadus, **Oana Irimia**, Claudia Tomozei, Influence of soil fertilization systems on soil characteristics for a monoculture of sunflower, Chemistry & Chemical Engineering, Biotechnology, Food Industry, vol 20, no. 4, 2019, p. 585-595; FI 0;

<https://pubs.ub.ro/?pg=revues&rev=csc6&num=201904&vol=4&aid=4958>;
WOS:000502846500008;

19. Claudia Tomozei, Florin Nedeff, Alina Petrovici Contu, **Oana Tirtoaca Irimia**, Marius Stanila, Ioan Joița, Valentin Zichil, Impacts of outdoor noise on teaching and learning activities, *Environmental Engineering and Management Journal*, vol. 15, no. 3, p. 545-552; 2016; DOI: 10.30638/eemj.2016.059; WOS:000376876400008;
20. Mariana Turcu, Narcis Bârsan, **Oana Irimia**, Ion Joița, Mihai Belciu, Application of synthetic chemical compounds in petroleum sludge treatment, *Environmental Engineering and Management Journal*, vol. 13, no. 7, p. 1751-1756; 2014; FI 1,1, DOI: 10.30638/eemj.2016.059; eISSN1843-3707, WOS: WOS:000344577400025;
21. Claudia Tomozei, Florin Nedeff, Gigel Paraschiv, **Oana Irimia**, Greta Ardeleanu, Alina Conțu Petrovici, Mathematical modelling of sound pressure level attenuation transmitted by an acoustic screen in industrial environment, *Environmental Engineering and Management Journal*, vol. 13, no. 7, p. 1743-1749; 2014; DOI:10.30638/eemj.2014.194; WOS:000344577400024;
22. Mirela Panainte, Marius Stănilă, Emilian Moșneguțu, **Oana Irimia**, Doina Capșa, Florin Nedeff, Claudia Tomozei, Ion Joița, Gabriela Telibașa, Monitoring emissions from large combustion plants, *Environmental Engineering and Management Journal*, vol. 13, no. 7, p. 1657-1664, 2014; FI 0,858; ISSN 1559-1842; DOI:10.30638/eemj.2014.183; WOS:000344577400013;
23. Ovidiu Bontas, Valentin Nedeff, Emilian Florin Mosnegutu, Mirela Panainte, **Oana Tirtoacă Irimia**, Behaviour of solid particles on a flat oscillating surface, *Environmental Engineering and Management Journal*, vol. 12, no. 1, p. 17 – 22; January 2013; FI 1,1; DOI: 10.30638/eemj.2013.003; WOS: WOS:000317803300003;
24. **Oana Tirtoaca Irimia**, Claudia Tomozei, Mirela Panainte, Emilian Florin Mosnegutu, Narcis Barsan, Efficiency of filters with different filtering materials: comparative study in water treatment, *Environmental Engineering and Management Journal*, vol. 12, no. 1, p. 35 – 40; 2013; FI 0,858; DOI:10.30638/eemj.2013.005; WOS:000317803300005;

IV.2. Lucrări publicate în proceeding cotat ISI

1. Iosif Ioja, Claudia Tomozei, Valentin Nedeff, Emilian Mosnegutu, Mirela Panainte-Lehadus, **Oana Irimia**, Narcis Barsan, Dana Chitimus, 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), 978-1-6654-0709-0/22/\$31.00 ©2022, IEEE 1, 30 June - 2 July 2022, Ruse, Bulgaria. 10.1109/EEAE53789.2022.9831319; ISBN: 978-1-6654-0710-6;
2. Tomozei Claudia, Panainte-Lehadus Mirela, **Irimia Oana**, Nedeff Florin, Public transport in Bacau City, 2020, 7th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2020 – Proceedings, 978-172810362-4, 12 November 2020; Article number 9279088; <https://ieeexplore.ieee.org/document/9279088>. 10.1109/EEAE49144.2020.9279088; ISBN: 978-1-7281-0362-4; WOS:000659299700127;

3. **Oana Irimia**, Claudia Tomozei, Mirela Panainte Lehadus, Maria Cristina Dinu, Evaluation of the Potential of Wind Energy as a Source of Electricity Generation: Case Study - Vanatori Wind Power Plant, 7th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2020 – Proceedings, 978-172810362-4, 12 November 2020, Article number 20279211, <https://ieeexplore.ieee.org/document/9278983>; WOS:000659299700025; 10.1109/EEAE49144.2020.9278983;
4. Claudia Tomozei, **Oana Irimia**, Nedeff Valentin, Mirela Panainte-Lehadus, Measurement of the noise level of the tailors, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, SGEM 2017 Conference Proceedings, issue 51, vol. 17, p. 635-652, 2017; ISBN 978-619-7408-08-9/ ISSN 1314-2704; <http://www.sgem.org/>;
5. **Oana Irimia**, Claudia Tomozei, Nedeff Valentin, Mirela Panainte-Lehadus, Experimental results regarding the groundwater quality in rural zone in Romania, 17th International Multidisciplinary Scientific GeoConference, SGEM 2017 Conference Proceedings, issue 51, vol. 17, p.465-470; 2017; ISBN 978-619-7408-08-9/ ISSN 1314-2704, 2017, <http://www.sgem.org/>;
6. **Oana Irimia**, Claudia Tomozei, Mirela Panainte-Lehadus, A mathematical model on the efficiency of the mechanical water filtering process, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, SGEM 2016 Conference Proceedings, ISBN 978-619-7105-62-9/ ISSN 1314-2704, 2016, Book 3, vol. 2, p. 695-702, 7 September 2016; <http://www.sgem.org/>; WOS:000391653500091;
7. Greta Ardeleanu, Claudia Tomozei, **Oana Irimia**, Mirela Panainte-Lehadus, Influence of Pollution Factors on River Bistrita Between the Sections Bacau – Neamt, 16th International Multidisciplinary Scientific GeoConference SGEM 2016, Conference Proceedings, book 3, vol. 2, p. 763-774, 2016; ISBN 978-619-7105-62-9/ ISSN 1314-2704; <http://www.sgem.org/>; WOS:000391653500100;

IV.3. Lucrări publicate în reviste indexate în baze de date internaționale (BDI)

1. **Oana Tirtoaca (Irimia)**, Przydatek Grzegorz, Comparative analysis of the waste management system efficiency in some counties from Romania and Poland, Journal of Engineering Studies and Research – Volume 27 (2021) No. 2, 96-106, <https://jesr.ub.ro/1/article/view/279>;
2. Claudia Tomozei, **Oana Irimia**, Mirela Panainte-Lehadus, Florin Nedeff, Shielding of noise sources using acoustic screens composed, Journal of Engineering Studies and Research, vol. 26, no. 1, p. 80-85, 2020, ISSN 2068-7559; ISSN 2068-7559; ISSN online: 2344-4932; <https://doi.org/10.29081/jesr.v26i1.12>;
3. Florina Fabian, Valentin Nedeff, Mirela Panainte-Lehadus, **Oana Irimia**, Silvia Racovita, Environmental impact of water treatment process. A systematic review of evaluation method, Journal of Engineering Studies and Research, Volumul 22, Numărul 3, Pagini 34-39, 2019, <https://jesr.ub.ro/1/article/view/101>;
4. Claudia Tomozei, Alexandra Pipa, **Oana Irimia**, Mirela Panainte-Lehadus, Florin Nedeff, Measuring noise level in the textile industry, Journal of Engineering Studies and Research, vol. 24, no. 3, p. 43-49, 2018, ISSN 2068-7559; ISSN online: 2344-4932; <https://doi.org/10.29081/jesr.v24i4.48>;

5. Mirela Panainte-Lehadus, Narcis Barsan, **Oana Irimia**, Claudia Tomozei, Emilian Mosnegutu, Florin Nedeff, Application on the workplaces hazards measurement in a bakery unit, *Journal of Engineering Studies and Research*, vol. 23, no. 4, p. 14-18, 2017, ISSN 2068-7559; ISSN online: 2344-4932; ISSN online: 2344-4932; <https://doi.org/10.29081/jesr.v23i4.69>;
6. **Oana Tirtoaca (Irimia)**, Valentin Nedeff, Mirela Panainte-Lehadus, Claudia Tomozei, Efficiency of water filtering process depending on the filter layer porosity and flow – a mathematical model, *Journal of Engineering Studies and Research*, vol. 22, no. 4, p. 53-60, 2016, ISSN 2068-7559; ISSN online: 2344-4932; <https://doi.org/10.29081/jesr.v22i4.97>;
7. Alina Petrovici, Claudia Tomozei, Florin Nedeff, **Oana Irimia**, Mirela Panainte Lehadus, Review on the road traffic noise assessment, *Journal of Engineering Studies and Research*, vol. 22, no. 1, p. 81-89, 2016, ISSN 2068-7559; ISSN online: 2344-4932; <https://doi.org/10.29081/jesr.v22i1.125>;
8. **Oana Irimia**, Valentin Nedeff, Mirela Panainte Lehadus, Claudia Tomozei, Experimental study concerning the distribution of granular particle shape from a filter layer, *Journal of Engineering Studies and Research*, vol. 22, no. 1, p. 64-71, 2016, ISSN 2068-7559; ISSN online: 2344-4932; <https://doi.org/10.29081/jesr.v22i1.123>;
9. Alina Petrovici, Claudia Tomozei, Ricardo Gey Flores, Florin Nedeff, **Oana Irimia**, Noise prediction, calculation and mapping using specialized software, *Journal of Engineering Studies and Research*, vol. 21, no. 3, p. 59-64, 2015, ISSN 2068-7559. ISSN online: 2344-4932; DOI:10.29081/jesr.v21i3.19;
10. **Oana Irimia**, Mirela Panainte-Lehadus, Valentin Nedeff, Claudia Tomozei, Alexandra Tartoaca, Study concerning the monitoring of particulate matter PM2.5 and PM10 in the library of „Vasile Alecsandri” University of Bacau, *Journal of Engineering Studies and Research*, vol. 21, no. 2, p. 57-64, 2015, ISSN 2068-7559. ISSN online: 2344-4932;
11. Jessica Alcaraz, MARINE Ridoire, MIRELA Panainte-Lehăduş, Mariana Turcu, NARCIS Barsan, DANA Chiţimuş, **OANA Irimia**, Application of the flocculation process for the municipal sewage sludge treatment, *Journal of Engineering Studies and Research*, Volumul 20, Numărul 2, Pagini 4-7, 2014, <https://pubs.ub.ro/?pg=revues&rev=jesr&num=201402&vol=20&aid=4130>
12. Tomozei Claudia, Nedeff Florin Marian, Panainte Mirela, **Irimia Oana**, Sollutions to reduce the noise generated by an air conditioning system, *Journal of Engineering Studies and Research*, vol. 19, no. 4, p. 71-76, 2013; 2068-7559;
13. Panainte Mirela, Nedeff Valentin, Olaru Ciprian, Tomozei Claudia, **Irimia Oana**, Study the behavior of food materials with soft textured subject to shred by cutting through the texture analysis method, *Proceedings of the 5th International Conference on Advanced Concepts in Mechanical Engineering ACME 2012*, 2012; ISSN 2285-2301;
14. **Tirtoacă-Irimia Oana**, Nedeff Valentin, Lazăr Gabriel, Panainte Mirela, Theoretical studies viewing the influence of particles'shape from filter layer in the mechanical filtration process, *Journal of Engineering Studies and Research Volumul 17, Numărul 1, Pagini 40*, 2011, <https://pubs.ub.ro/?pg=revues&rev=jesr&num=201101&vol=17&aid=3355>.

IV.4. Lucrări publicate în volumele unor conferințe naționale și internaționale

1. Claudia Tomozei, Mirela Panainte-Lehadus, **Oana Irimia**, Florin Marian Nedeff, Emilian Mosnegutu, Narcis Barsan, Dana Chitimus, Andreea-Iuliana Mares, Grzegorz Przydatek, Evaluation of noise level in an working environment, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2023, May 11-13, 2023;
2. **Oana Irimia**, Claudia Tomozei, Mirela Panainte, Emilian Mosnegutu, Alexandra-Dana Chitimus, Narcis Barsan, Bobarnac Cristina, Study on the efficiency of street lighting in the Commune of Margineni by using solar energy, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2022, May 25-27, 2022;
3. Mirela Panainte-Lehadus, Claudia Tomozei, **Oana Irimia**, Emilian Mosnegutu, Florin Nedeff, Narcis Barsan, Andreea – Iuliana Mareș, Study on the purchase of green products among consumers, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2022, May 25-27, 2022;
4. Emilian Mosnegutu, Claudia Tomozei, Valentin Nedeff, Panainte Panainte-Lehadus, **Oana Irimia**, Carp Loredana, Geometric calculation of the influence of an oscillating sieve's actuation mechanism position on it's motion, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2022, May 25-27, 2022;
5. Claudia Tomozei, **Oana Irimia**, Mirela Panainte-Lehadus, Emilian Mosnegutu, Florin Nedeff, Cosmin Dosoftei, Cristina Vișan, Study Regarding the Determination of the Dust Concentration Level in the Center of Bacau City, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2022, May 25-27, 2022;
6. Mirela Panainte-Lehadus, Florin-Marian Nedeff, Claudia Tomozei, Narcis Barsan, **Oana Irimia**, Study on urban mobility in Bacau Municipality, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2021, May 25-27, 2021;
7. Claudia Tomozei, **Oana Irimia**, Mirela Panainte Lehadus, Florin Nedeff, Emilian Mosnegutu, Evaluation of the noise level in the Bacau Bus Station Area, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2021, May 25-27, 2021;
8. Bogdan Minel, Claudia Tomozei, Mirela Panainte-Lehadus, Valentin Nedeff, **Oana Irimia**, Emergency management at the level of the Bacau Fire Brigade, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2021, May 25-27, 2021;
9. Claudia Tomozei, **Oana Irimia**, Mirela Panainte Lehadus, Florin Nedeff, Public transport in Bacau City, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2019, May 22 – 24, 2019;
10. **Oana Tirtoaca (Irimia)**, Valentin Nedeff, Mirela Panainte Lehadus, Claudia Tomozei, An approach for traffic monitoring based on origins – destinations interviews, Constructive

- and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2019, May 22 – 24, 2019;
11. Mirela Panainte Lehadus, Florin Nedeff, Claudia Tomozei, **Oana Irimia**, Alina Mihaela Petrovici, Traffic monitoring in important Bacau City intersection, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2019, May 22 – 24, 2019;
 12. Claudia Tomozei, **Oana Irimia**, Mirela Panainte Lehadus, Florin Nedeff, Comparative study on water quality of Bistrita River (Romania) and Drava River (Slovenia and Croatia), Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2018, June 27-29, 2018;
 13. **Oana Irimia**, Valentin Nedeff, Mirela Panainte Lehadus, Claudia Tomozei, Microplastics pollution in aquatic system and methods for detection a review of recent studies at european level, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2018, June 27-29, 2018;
 14. Mirela Panainte Lehadus, Valentin Nedeff, Emilian Mosnegutu, Claudia Tomozei, **Oana Irimia**, Antonina Temea, Study on consumer attitudes towards the purchase of Eco-labeled products, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2018, June 27-29, 2018;
 15. Claudia Tomozei, Florin Nedeff, **Oana Irimia**, Mirela Panainte, Shielding of noise sources using acoustic screen composed, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2016, June 02-04, 2016;
 16. **Oana Tartoaca (Irimia)**, Valentin Nedeff, Claudia Tomozei, Mirela Panainte Lehadus, Studies on groundwater quality in Bacau City, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2015, June 02-04, 2016;
 17. Claudia Tomozei, Alina Petrovici, Mirela Panainte, Florin Nedeff, **Oana Irimia**, Evaluation of noise level generated by the road traffic on brigdes in urban areas, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2015, June 04-06, 2015;
 18. **Oana (Irimia) Tartoaca**, Valentin Nedeff, Mihai C. Nicolescu, Mirela Panainte Lehadus, Claudia Tomozei, Efficiency of water filtering process depending on the porosity of filter layer and flow of the filter – A mathematical model, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, Oproteh 2015, June 04-06, 2015;
 19. Claudia Tomozei, Florin Nedeff, **Oana Irimia**, Mirela Panainte-Lehadus, Sound attenuation of the acoustic wave propagation through a simple acoustic screen, EE&AE'2015 – VIth International Scientific Conference, Energy Efficiency and Agricultural Engineering, „Angel Kanchev” University of Ruse, p. 654-659, November 11 – 12, 2015;
 20. **Oana Irimia**, Valentin Nedeff, Mirela Panainte-Lehadus, Claudia Tomozei, Alexandra Tartoaca, Florina Fabian, Study regarding the measuring of particulate matter PM2.5 and PM10 in the printing house of „Vasile Alecsandri” University of Bacau, EE&AE'2015 – VIth International Scientific Conference, Energy Efficiency and Agricultural Engineering, „Angel Kanchev” University of Ruse, p. 701-708, November 11 – 12, 2015;

21. Mirela Panainte-Lehadus, Valentin Nedeff, Emilian Mosnegutu, Antonina Temea, Claudia Tomozei, **Oana Irimia**, Study regarding occupational health and safety management at the „Vasile Alecsandri” University of Bacau, EE&AE’2015 – VIth International Scientific Conference, Energy Efficiency and Agricultural Engineering, „Angel Kanchev” University of Ruse, p. 599-608, November 11 – 12, 2015;
22. Claudia Tomozei, Florin Nedeff, Alina Petrovici (Contu), **Oana (Tirtoaca) Irimia**, Doina Capsa, The exterior noise impact on the activities developed in a teaching environment, Abstract publicat al lucrării prezentate in cadrul Conferinței Second International Conference on Natural and Anthropic Risks ICNAR2014, Bacau, Romania, June 4-7, 2014;
23. **Oana Tirtoaca (Irimia)**, Valentin Nedeff, Emilian Mosnegutu, Mirela Panainte, Claudia Tomozei, A mathematical model on the efficiency of the mechanical water filtering process, Abstract publicat al lucrării prezentate in cadrul Conferinței Second International Conference on Natural and Anthropic Risks ICNAR2014, Bacau, Romania, June 4-7, 2014;
24. Mirela Panainte, Valentin Nedeff, Marius Stanila, Narcis Birsan, Emilian Mosnegutu, Claudia Tomozei, **Oana Irimia**, Study regarding the monitoring emissions from combustion plants at SC CET SA Bacau platform, Abstract publicat al lucrării prezentate in cadrul Conferinței Internationale OPROTEH 2013, Universitatea „Vasile Alecsandri” din Bacau, Facultatea de Inginerie, modul D29, ISBN 978-606-527-293-4, May 23-25, 2013;
25. Tomozei Claudia, Nedeff Florin, Panainte Mirela, Mosnegutu Emilian, **Irimia Oana**, A mathematical model of the attenuation of sound pressure level transmitted by an acoustic screen, Abstract publicat al lucrării prezentate in cadrul Conferinței Internationale OPROTEH 2013, Universitatea „Vasile Alecsandri” din Bacau, Facultatea de Inginerie, modul D13, ISBN 978-606-527-293-4, May 23-25, 2013;
26. Mosnegutu Emilian, Panainte Mirela, Nedeff Valentin, Tomozei Claudia, **Irimia Oana**, Waste Management System at „Vasile Alecsandri” University of Bacau, EE&AE 2013, Engineering and Research for Agriculture Conference, „Angel Kanchev” University of Rouse, 17-18 May 2013, p. 496-503.
27. **Irimia Oana**, Nedeff Valentin, Panainte Lehăduș Mirela, Tomozei Claudia, Microplastics pollution in aquatic systems and methods for detection: a review of recent studies at european level, International Journal of Arts & Sciences, 2-6 March, 2014, University of Malta, Malta.
28. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Panainte Mirela, Comparative study viewing the efficiency of the granular filters depending on the type of the filter material, First International Conference on MOLDAVIAN RISKS - FROM GLOBAL TO LOCAL SCALE, 16-19 May, 2012, Bacău, ROMANIA;
29. **Tirtoaca (Irimia) Oana**, Studies and researches viewing the influence of granular particle’s shape from the filter layer during water’s filtering process, Proceedings of the 12TH International Conference On Environmental Science & Technology CEST, Session 23, Water treatment and reclamation, Rhodes Island, Dodecanese, Greece, August 2011;
30. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Lazar Gabriel, Actual stage to water filtration, International Conference OPROTEH 2011, “Vasile Alecsandri” University of Bacau, Faculty de Engineering, module E21, Optimization in environmental engineering and environmental protection, 24-26 May 2011;

31. **Tirtoaca (Irimia) Oana**, Studies and researches viewing the influence of flow filtration on water quality in the case of quartz sand granular filters, Conferinta internationala Proceedings of the Scientific Student Session – SSS'11, University „Angel Kanchev”, Ruse, Bulgaria, 2011.

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S. I. dr. ing. Irimia Oana