



ROMÂNIA
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LISTA LUCRĂRILOR PUBLICATE
Conf. univ. dr. ing. habil. Irimia Oana

I. Lista lucrărilor considerate relevante pentru realizările profesionale proprii

1. Eniko Gaspar, **Oana Irimia**, Mirela Stanciu, Narcis Bârsan, Emilian Mosnegutu, Strategies for a Sustainable Economy: Optimizing Processes for BOD, COD and TSS Removal from Wastewater, Water 2025, 17(3), 318; <https://doi.org/10.3390/w17030318>. WOS:001419220600001
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4. 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;
5. **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 3,5; <https://doi.org/10.3390/pr10122485>; WOS:000902812200001;
6. **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, 3; <https://pubs.ub.ro/?pg=revues&rev=csc6&num=202002&vol=2&aid=5111>; WOS:000546789300012;

7. **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;
8. Cochiorca Alina, 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;
9. 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; 2019, FI 0; <https://doi.org/10.37358/RC.19.8.7446>; WOS:000489685600035;
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.;
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IV. Articole/studii în extenso, publicate în reviste din fluxul științific internațional principal

IV.1. Lucrări publicate în reviste cotate ISI

1. Emilian Moșneguțu, Marcin Jasiński, Mirela Panainte-Lehăduș, Claudia Tomozei, Oana Irimia, Nicoleta Sporea, Luminita Bibire, Iwona Wiewiórska, Mathematical Study of a Product-Gripping Mechanism for Industrial Transportation, Appl. Sci. 2025, 15(8), 4176; <https://doi.org/10.3390/app15084176> WOS:001474773700001
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 17. 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;
 18. 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;
 19. **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,

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20. Mosnegutu Emilian Florin, Panainte-Lehădus 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;
 21. 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
 22. **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;
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 24. 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 Thermo-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;
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IV.2. Lucrări publicate în proceeding cotat ISI

1. Petruţ-Liviu Bogdan, Valentin Nedeff, Mirela Panainte-Lehaduş, **Oana Irimia**, Emilian Moşneguţu, Integrated Assessment of Groundwater Quality: A Case Study of the Roman City and its Northern Surroundings, 9th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE), 27-29 June, 2024, Ruse, Bulgaria, ISBN 979-8-3503-6937-3
2. Claudia Tomozei, Emilian Moşnegutu, Valentin Nedeff, **Oana Irimia**, Mirela Panainte-Lehadus, Florin Marian Nedeff, Dana Chitimus, Narcis Barsan, Study of the Noise Level in an Ice Cream Factory Working Environment, 9th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE), 27-29 June, 2024, Ruse, Bulgaria, ISBN 979-8-3503-6937-3
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,

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IV.3. Lucrări publicate în reviste indexate în baze de date internationale (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>;
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IV.4. Lucrări publicate în volumele unor conferințe naționale și internaționale

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2. **Oana Irimia**, Claudia Tomozei, Lucian Mihet-Popa, Mirela Panainte-Lehadus, Emilian Mosnegutu, Oana Ojog, Implementation of the circular economy concept in the framework of a retail company with construction materials, Constructive and Technological Design Optimization in the machines Building Field, Conference Proceedings abstracts, OPROTEH 2023, May 11-13, 2023;
3. 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;
4. **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;
5. Mirela Panainte-Lehadus, Claudia Tomozei, **Oana Irimia**, Emilian Mosnegutu, Florin Nedeff, Narcis Barsan, Andreea – Iuliana Mareş, 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;
6. 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;
7. Claudia Tomozei, **Oana Irimia**, Mirela Panainte-Lehadus, Emilian Mosnegutu, Florin Nedeff, Cosmin Dosoftei, Cristina Vişan, 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;
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12. **Oana Tirtoc (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;
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V. Contracte de cercetare științifică

- Contract nr. 8.330/03.10.2024; Titlu proiect Cooperare bilaterală pentru o colaborare pe termen lung, Finantator: EEA and Norway Grants in Romania, Fonduri pentru relații bilaterale Valoarea totala a proiectului: 54.150 euro, din care fonduri SEE 46.027 euro+cofinantare 8.123 euro, 15 membri in echipa proiectului, director proiect: Irimia Oana, perioada de implementare octombrie 2024 - februarie 2025.
- Contract nr. CNFIS-FDI-2024-F-0556, Titlu proiect: „Ecosistem antreprenorial competitiv, incluziv și sustenabil la Universitatea „Vasile Alecsandri” din Bacău”, Acronim: iEnterprise@UBc, Valoarea proiectului: total = 375.000 lei, din care valoare aprobată MEN = 250.000 lei și valoare cofinanțare = 125.000 lei, membru echipa proiect, număr membri în echipă a proiectului: 26, aprilie-decembrie 2024
- Contract nr. 11183/18.07.2024, Titlu proiect: „Simulated Enterprises in Food Industry at the „Vasile Alecsandri” University of Bacau”, Acronim: SEiFI@UBc, Valoarea contractului de sponsorizare: 27.370 lei, membru echipa proiect, număr membri în echipa proiectului: 25, perioada de implementare: octombrie 2024 - februarie 2025
- Contract nr. 22-MOB-0035 Programul de Educație, Burse, Ucenicie și Antreprenoriatul Tinerilor, Granturi SEE 2014-2021, finanțat prin granturile SEE, Mecanismul financiar 2014-2021, 15 luni, valoare contract 35.818 euro, director proiect;
- Contract nr. 3/2023, Determinarea compoziției deșeurilor menajere reziduale și reciclabile, similare și din piețe și a deșeurilor biodegradabile la nivelul județului Bacău - Raport de activitate la protocol de colaborare 4259/24.03.2023; 1. Asociația de dezvoltare Intercomunitară pentru Salubritate Bacău; 2. S.C. Compania Romprest Service S.A.; 2 luni; valoare contract 0 lei; membru;
- Contract nr. 4/2023, Determinarea compoziției deșeurilor reziduale, biodegradabile și a deșeurilor reciclabile la nivelul zonei ISPA (municipiul Bacău și 22 de comune limitrofe) din județul Bacău; 1. Asociația de dezvoltare Intercomunitară pentru Salubritate Bacău 2. S.C. SOMA S.R.L.; 2 luni; valoare contract 22745 lei; membru;
- Proiect CNFIS-FDI-0574, Facultatea de Inginerie, Infrastructură modernă și digitalizată pentru pregătirea practică a studenților UBc; 2021; membru;

8. Contract nr. 1/2019, Cercetări în vederea implementării de procedee și tehnici de laborator și industriale în vederea epurării apelor uzate și tratării nămolurilor; 12 luni; valoare contract 22400 lei; membru;
9. Contract nr. 2/2017, Aplicarea unor cercetări de laborator în vederea tratării nămolurilor de epurare; valoare contract 9400 lei; membru;
10. Contract nr. 1/2017, Aplicarea cercetărilor de laborator în vederea epurării apelor uzate și tratării nămolurilor; 11 luni; valoare contract 27500 lei; membru;
11. Contract nr. 15923/2016, “Vizite de studiu” prin Programul de Burse RO15.
12. Contract nr. 8/2016, Culegere de date de trafic pentru elaborarea planului de mobilitate urbană durabilă, Bacău; SC SEARCH CORPORATION SRL; valoare contract 6000 euro; 27012 lei; membru;
13. Contract nr. 7/2016, Cercetări de laborator cu privire la epurarea apelor uzate și tratarea nămolurilor; 7 luni; valoare contract 13650 lei; membru;
14. Contract nr. 6/2016, Evaluarea în laborator a posibilităților de tratare a nămolurilor de epurare; valoare contract 1.950 lei; membru;
15. Contract nr. 5/2016, Studii cu privire la epurarea apelor uzate; valoare contract 1.950 lei; membru;
16. Contract nr. 4/2016, Analiza posibilităților de epurare a unor ape uzate industrial; valoare contract 1.950 lei; membru;
17. Contract nr. 2/2016, Cercetări asupra epurării apelor uzate din industria alimentară, membru, valoare contract 1.950 lei;
18. Contract nr. 1/2016, Cercetări de laborator cu privire la epurarea apelor uzate industriale folosind floculanți organici; valoare contract 1.950 lei; membru;
19. Contract nr. 20/2015, Cercetări cu privire la tratarea chimică a unor ape uzate industrial; valoare contract 1.950 lei; membru;
20. Contract nr. 19/2015, Studii cu privire la epurarea chimică a unor ape uzate rezultate din industria petrolieră; valoare contract 1.950 lei; membru;
21. Contract nr. 18/2015, Cercetări cu privire la epurarea chimică a apelor uzate rezultate industrial cu S.C. ECO Sistem Proiect S.R.L. Bacău; valoare contract 1.950 lei; membru;
22. Contract nr. 17/2015, Studiu privind determinarea noxelor profesionale specifice locului de muncă din cadrul SC NADENKA SR, punct de lucru str. 9 mai, Bacău; valoare contract 500 lei; membru;
23. Contract nr. 16/2015, Studii cu privire la epurarea chimică a apelor uzate rezultate din industria textile; valoare contract 1.950 lei; membru;
24. Contract nr. 15/2015, Studiu impact privind apele subterane la cele două puțuri de foraj aflate pe amplasamentul SC Stemar Vaslui, 15-2015; valoare contract 2000 lei; membru;
25. Contract nr. 14/2015, Cercetări privind aplicarea procesului de coagulare și floculare în epurarea apelor uzate cu S.C. ECO Sistem Proiect S.R.L. Bacău; valoare contract 1.950 lei; membru;
26. Contract nr. 12/2015, Cercetări privind tratarea nămolurilor cu S.C. ECO Sistem Proiect S.R.L. Bacău, valoare contract 1.950 lei; membru;
27. Contract nr. 9/2015, Cercetări industriale cu privire la folosirea floculanților organici pentru epurarea apelor uzate industriale cu specific petrolier cu S.C. ECO Sistem Proiect S.R.L. Bacău; valoare contract 1.950 lei; membru;
28. Contract nr. 8/2015, Studii și cercetări cu privire la posibilitățile de tratare chimică a apelor uzate cu S.C. ECO Sistem Proiect S.R.L. Bacău; valoare contract 1.950 lei; membru;

29. Contract nr. 6/2015, Studii și cercetări privind tratarea nămolurilor de epurare folosind floculanți organici cu S.C. ECO Sistem Proiect S.R.L. Bacău; valoare contract 1.950 lei; membru;
30. Contract de cercetare nr. 4/20.03.2015 cu SC ECO SISTEM PROIECT SRL Bacău, Studii și cercetări privind epurarea apelor uzate cu specific petrolier; Valentin Nedeff, Mirela Panainte Lehadus, Emilian Mosnegutu, Narcis Barsan, Claudia Tomozei, Dana Chitimus, Oana Irimia, Florin Marian Nedeff; valoare contract 1950 lei; membru;
31. Contract de cercetare nr. 3/ 16.02.2015 cu SC Romconstructor SA Bacău, Studii și cercetări privind evaluarea impactului asupra mediului la SC Romconstructor SA Bacău; 16.02.2015; Mirela Panainte Lehadus, Emilian Mosnegutu, Claudia Tomozei, Oana Irimia, Alina Petrovici, Florin Marian Nedeff, Mihaela Dascalu; valoare contract 2.000 lei; membru;
32. Contract de cercetare cu SC ECO Sistem Proiect S.R.L. Bacău, Studii și cercetări privind epurarea apelor uzate și a nămolurilor de epurare; 2014; valoare contract 20000 lei; membru;
33. Contract nr POSDRU/160/2.1/S/133020. Creșterea capacității de integrare pe piața muncii a studenților și absolvenților prin consiliere și plasamente practice” 2007-2013, consilier termen scurt; membru;
34. Contract nr. 2/2009, 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.; membru.

30.01.2026

Conf. univ. dr. ing. habil. Oana IRIMIA