



ROMÂNIA  
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## LISTA LUCRĂRILOR PUBLICATE Asist. univ. dr. ing. Irimia Oana

### I. Lista lucrărilor considerate relevante pentru realizările profesionale proprii

1. **Irimia Oana Tirtoaca**, Tomozei Claudia, Panainte Mirela et al. Efficiency of filters with different filtering materials: comparative study in water treatment, Environmental Engineering and Management Journal, 2013, vol.12, no. 1, pp. 35-39, FI 1.117
2. 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, January, 2013, vol.12, no. 1, pp. 17-22, FI 1.117
3. 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. 7/2014, pg. 1743-1749, ISSN 1582-9596, FI 1.117.
4. Mariana Turcu, Narcis Bârsan, **Oana Irimia**, Ion Joița, Mihai Belciu, Application of synthetic chemical compounds in petroleum sludge treatment, vol. 13, no. 7/2014, pg. 1751-1756, ISSN 1582-9596, FI 1.117.
5. Panainte Mirela, Stanila Marius, Mosnegutu Emilian, **Irimia Oana**, Capsa Doina, Nedeff Florin, Tomozei Claudia, Joița Ion, Telibasa Gabriela, Monitoring emissions from large combustion plants, vol. 13, no. 7/2014, pg. 1657-1663, ISSN 1582-9596, FI 1.117.
6. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Lazar Gabriel, 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, pg. 234, Rhodes Island, Dodecanese, Greece, 2011, ISBN 978-960-7475-49-7.
7. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Lazar 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, vol. 17, no. 1 pg. 40-45, 2011, ISSN 2068-7559, FI 1,00.
8. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Lazar Gabriel, Actual stage to water filtration, Journal of Engineering Studies and Research, vol. 17, no. 4, pg. 101-108, 2011, ISSN 2068-7559, FI 1,00.
9. 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. 13 pg. 71-76, 2013, ISSN 2068-7559.
10. **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.

## II. Teză de doctorat

1. “Studii și cercetări privind posibilitățile de creștere a calității apei pentru diferite tipuri de cerințe”  
Domeniul: Inginerie Mecanică, Facultatea de Inginerie, Universitatea „Vasile Alecsandri” din Bacău

## III. Cărți și capitole din cărți

1. **Oana Țirtoacă (Irimia)**, Valentin Nedeff, Mirela Panainte, Gabriel Lazar. “Potabilizarea apelor. Procedee și tehnici de filtrare”, Editura Alma Mater, Bacău, 2014, ISBN 978-606-527-355-9.

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

### IV.1. Lucrări publicate în reviste cotate ISI

1. 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. 7/2014, pg. 1743-1749, ISSN 1582-9596, FI 1 .117.
2. 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. 7/2014, pg. 1751-1756, ISSN 1582-9596, FI 1 .117.
3. Panainte Mirela, Stanila Marius, Mosnegutu Emilian, **Irimia Oana**, Capsa Doina, Nedeff Florin, Tomozei Claudia, Joița Ion, Telibasa Gabriela, Monitoring emissions from large combustion plants, Environmental Engineering and Management Journal vol. 13, no. 7/2014, pg. 1657-1663, ISSN 1582-9596, FI 1 .117.
4. **Tirtoaca (Irimia) Oana**, Tomozei Claudia, Panainte Mirela, Mosnegutu Emilian Florin, Narcis Barsan, Efficiency of filters with different filtering materials: comparative study in water treatment, Environmental Engineering and Management Journal, vol. 12, no. 1/2013, pg. 35-39, ISSN 1582-9596, FI 1.117.
5. 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. 1/2013, pg. 17-22, ISSN 1582-9596, FI 1 .117.

### IV.2. Lucrări publicate în proceedings cotate ISI

1. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Lazar Gabriel, 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, pg. 234, Rhodes Island, Dodecanese, Greece, 2011, ISBN 978-960-7475-49-7.

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

1. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Lazar Gabriel, Actual stage to water filtration, Journal of Engineering Studies and Research, vol. 17, no. 4, pg. 101-108, 2011, ISSN 2068-7559.

2. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Lazar 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, vol. 17, no. 1 pg. 40-45, 2011, ISSN 2068-7559.
3. 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, Institutului Politehnic din Iași Tomul LVI (LX), Fasc. 4B, Secția Construcții de Mașini, 2012, ISSN 1011-2855, pp. 283 – 289.
4. 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. 13 pg. 71-76, 2013, ISSN 2068-7559.
5. Jessica Alcaraz, Marine Ridoire, Mirela Panainte-Lehăduș, Mariana Turcu, Narcis Bârsan, Dana Chițimuș, **Oana Irimia**, Application of the flocculation process for the municipal sewage sludge treatment, Journal of Engineering Studies and Research, vol. 20, no. 2, pg. 7-13, ISSN 2068-7559, 2014.
6. **Irimia Oana**, Panainte Lehăduș Mirela, Nedeff Valentin, Tomozei Claudia, Țirtoacă Alexandra, 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, pg. 7-13, 2015, ISSN 2068-7559.

#### V. Lucrări publicate în volumele unor conferințe naționale și internaționale

1. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Lazar Gabriel, 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, pg. 234, Rhodes Island, Dodecanese, Greece, 2011, ISBN 978-960-7475-49-7.
2. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Lazar Gabriel, Studies and researches viewing the influence of flow filtration on water quality in the case of quartz sand granular filters, Proceedings of the Scientific Student Session – SSS'11, pg. 30-35, 2011, University „Angel Kanchev”, Ruse, Bulgaria, ISSN 1311-3321.
3. **Tirtoaca (Irimia) Oana**, Nedeff Valentin, Lazar Gabriel, Actual stage to water filtration, International Conference OPROTEH 2011, “Vasile Alecsandri” University of Bacau, Faculty of Engineering, 2011, ISBN 978-606-527-131-9.
4. **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, pg. 65, 2012, Bacau, Romania, ISBN 978-606-527-201-9.
5. Bontas Ovidiu, Nedeff Valentin, Moșnegutu Emilian Florin, Mirela Panainte, **Tirtoaca (Irimia) Oana**, Studies regarding the behavior of solid particles on a flat oscillating surface, First International Conference on MOLDAVIAN RISKS – FROM GLOBAL TO LOCAL SCALE, pg. 74, 2012, Bacau, Romania, ISBN 978-606-527-201-9.
6. 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, 14 -15 June 2012, ISSN\*2285-2301.
7. Moșneguțu Emilian, **Panainte Mirela**, Nedeff Valentin, Tomozei Claudia, Irimia Oana, Waste management system at „Vasile Alecsandri” University of Bacau, EEA&AE'2013 – International Scientific Conference, 17-18.05.2013, Ruse Bulgaria, pag. 496 – 503;
8. **Oana Țirtoacă (Irimia)**, Valentin Nedeff, Emilian Moșneguțu, Mirela Panainte, Claudia Tomozei, A mathematical model on the efficiency of the mechanical water filtering process, Second International NATURAL AND ANTHROPIC RISKS, ICNAR 2014, module Environment and health risk, ISSN: 2360 – 4018, 4-7 June 2014, Bacau, Romania.

9. Claudia Tomozei, Florin Nedeff, Alina Petrovici (Contu), Mirela Panainte, **Oana Irimia**, The exterior noise impact on the activities developed in a teaching environment, Second International NATURAL AND ANTHROPIC RISKS, ICNAR 2014, module Environment and health risk, ISSN: 2360 – 4018, 4-7 June 2014, Bacau, Romania.
10. Mirela Panainte-Lehăduș, Valentin Nedeff, Emilian Moșneguțu, Tomozei Claudia, Gabriela Telibașa, **Oana Irimia**, On the exposure to risks that may appear in the educational activity - case study: Faculty of Engineering, "Vasile Alecsandri" University of Bacău, Romania, Second International NATURAL AND ANTHROPIC RISKS, ICNAR 2014, module Educational and social risk, ISSN: 2360 – 4018, 4-7 June 2014, Bacau, Romania.
11. **Irimia Oana**, Nedeff Valentin, Panainte Lehăduș Mirela, Tomozei Claudia, Țîrtoacă Alexandra, Fabian Florina, Study regarding the measuring of particulate matter PM2.5 and PM10 in the printing house of “Vasile Alecsandri” University of Bacau, Proceedings of the Union of Scientists – Ruse, VIth INTERNATIONAL SCIENTIFIC CONFERENCE, ENERGY EFFICIENCY AND AGRICULTURAL ENGINEERING, Angel Kanchev” University of Ruse, ISSN 1311-9974, p. 701-708, 2015.

## VI. Lucrări prezentate la conferințe și manifestări științifice

1. **Tirtoaca (Irimia) Oana**, Studies and researches viewing the influence of flow filtration on water quality in the case of quartz sand granular filters, University „Angel Kanchev”, Ruse, Bulgaria, 2011.
2. **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.
3. **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.
4. Moșneguțu 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 Rousse, 17-18 May 2013, p. 496-503.
5. 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, International Conference OPROTEH 2013 „Vasile Alecsandri” University of Bacau, Faculty of Engineering, module D13, ISBN 978-606-527-293-4, 23-25 May 2013.
6. **Oana Țîrtoacă (Irimia)**, Valentin Nedeff, Emilian Moșneguțu, Mirela Panainte, Claudia Tomozei, A mathematical model on the efficiency of the mechanical water filtering process, Second International NATURAL AND ANTHROPIC RISKS, ICNAR 2014, module Environment and health risk, ISSN: 2360 – 4018, 4-7 June 2014, Bacau, Romania.
7. Claudia Tomozei, Florin Nedeff, Alina Petrovici (Contu), Mirela Panainte, **Oana Irimia**, The exterior noise impact on the activities developed in a teaching environment, Second International NATURAL AND ANTHROPIC RISKS, ICNAR 2014, module Environment and health risk, ISSN: 2360 – 4018, 4-7 June 2014, Bacau, Romania.
8. Mirela Panainte-Lehăduș, Valentin Nedeff, Emilian Moșneguțu, Tomozei Claudia, Gabriela Telibașa, **Oana Irimia**, On the exposure to risks that may appear in the educational activity - case study: Faculty of Engineering, "Vasile Alecsandri" University of Bacău, Romania, Second International NATURAL AND ANTHROPIC RISKS, ICNAR 2014, module Educational and social risk, ISSN: 2360 – 4018, 4-7 June 2014, Bacau, Romania.
9. **Irimia Oana**, Nedeff Valentin, Panainte Lehăduș Mirela, Tomozei Claudia, Țîrtoacă Alexandra, Fabian Florina, Study regarding the measuring of particulate matter PM2.5 and PM10 in the printing house of “Vasile Alecsandri” University of Bacau, VIth INTERNATIONAL

SCIENTIFIC CONFERENCE, ENERGY EFFICIENCY AND AGRICULTURAL ENGINEERING, Angel Kanchev” University of Ruse, Section „Ecology and agriculture”, 11 – 12 November 2015.

## VII. Contracte de cercetare

### VI.1. Contracte de cercetare cu agenți economici – membru în echipă

1. Contract nr.17/2013, Studii și cercetări privind managementul deșeurilor la S.C.SIGMA SECURITY GROUP S.R.L. Bacău , **valoare contract 2.200 lei**
2. Contract nr.16/2013, Studii și cercetări privind managementul deșeurilor la S.C. Comservice Company S.R.L. Bacău, **valoare contract 2.000 lei**
3. Contract nr.15/2013, Studii și cercetări privind managementul deșeurilor la S.C. TERMA S.R.L. Bacău, **valoare contract 3.000 lei**
4. Contract 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, SC RUSTRANS BACAU, **valoare contract 2.815 lei**

08.01.2015

Asist. univ. dr. ing. Irimia Oana