UNIVERSITATEA TEHNICĂ DIN CLUJ-NAPOCA
Facultatea Ingineria Materialelor şi a Mediului
Departamentul Ingineria Mediului şi Antreprenoriatul Dezvoltării Durabile

LISTA DE LUCRĂRI

Şef de lucrări dr.ing. Ancuţa-Elena TIUC

I. Lucrări relvante pentru realizările profesionale proprii

1. **Borlea (Tiuc) A.,** Rusu T., Ionescu S., Nemeş, O., *Determination of sound absorption properties of some new composite materials obtained from wastes,* Revista Română de Materiale/Romanian Journal of Materials, vol.42, nr.4, pp. 405-414, 2012.
2. **Borlea (Tiuc) A.,** Rusu T., Vasile O., *Using particles of recycled rubber when making some soundproofing materials,* Materiale Plastice, vol. 49, nr.4, pp. 275-278, 2012.
3. **Tiuc A.E**, Nemeş O., Perhaiţa I., Vermeşan H., Gabor T., Dan V., *Thermal Behaviour of Polyurethane Matrix Composite Materials,* Studia Universitatis Babeş-Bolyai Seria Chemia, LX, 2, Tom I, pp. 169-176, 2015.
4. **Tiuc A.E**., Dan V., Vermeşan H., Gabor T., Proorocu M., *Recovery Of Sawdust And Particles Of Recycled Rubber By Making Them Into Sound Absorbing Materials,* Environmental Engineering and Management Journal, no. 5, May 2016, Vol.15, No. 5, 1093-1101, 2016.
5. **Tiuc A.E.,** Vasile O., Vermesan H., Platon M.A., Sound Absorbing Insulating Composites Based On Polyurethane Foam And Waste Materials, Materiale Plastice, vol.55, No.3, 2018. https://doi.org/10.37358/MP.18.3.5041
6. **Tiuc A.E.,** Nemeş O., Vermesan H., Toma A.C., New sound absorbent composite materials based on sawdust and polyurethane foam, Composites Part B: Engineering, vol. 65, 2019, 120-130. https://doi.org/10.1016/j.compositesb.2018.11.103
7. **Tiuc A.E.,** Nemeş O., Vermesan H., Tamas-Gavrea R., Vasile O., New sound absorbing materials obtained from waste rigid polyurethane foam, Materiale Plastice, vol.56, No.4, 2019. https://doi.org/10.37358/MP.19.4.5301
8. Borlea (Mureşan), S.I., **Tiuc, A.-E.,** Nemeş, O., Vermeşan, H., Vasile, O. Innovative Use of Sheep Wool for Obtaining Materials with Improved Sound-Absorbing Properties. Materials 2020, 13, 694. https://doi.org/10.3390/ma13030694
9. **Tiuc A.E.**, Vermeşan H., Gabor T., Vasile O., *Improved sound absorption properties of polyurethane foam mixed with textile waste,* Energy Procedia, Volume 85, January 2016, Pages 559–565, EENVIRO-YRC 2015 – Bucharest.
10. **Tiuc Ancuţa Elena**, Rusu Tiberiu, Nemeş Ovidiu, Procedeu de Obţinere a unui Material Compozit Fonoabsorbant, Nr. brevet 129228 B1, clasificare internationala C04B 26/26 (2006.01), 28.08.2015.

II. Teza de doctorat

– *Studii şi Cercetări Privind Obţinerea unor Materiale Fonoabsorbante din Deşeuri*, septembrie 2012, Universitatea Tehnică din Cluj-Napoca, conducător ştiinţific Prof.univ.dr.ing. Tiberiu RUSU.

III. Brevete de invenție

1. **Tiuc Ancuţa Elena**, Rusu Tiberiu, Nemeş Ovidiu, Procedeu de Obţinere a unui Material Compozit Fonoabsorbant, Nr. brevet 129228 B1, clasificare internaţională C04B 26/26 (2006.01), 28.08.2015.
2. Tămaş-Gavrea Daniela-Roxana, Iştoan Raluca, **Tiuc Ancuţa Elena**, Panou Compozit Multistrat şi Procedeu de Obţinere a Acestuia, Nr. brevet 133261 B1, clasificare internaţională B32B 13/14 (2006.01), 30/04/2020.

IV. Cărți

1. Tămaş-Gavrea R.-D., Iştoan R., Dénes T.-O., **Tiuc A.E.,** Confortul Acustic în Clădiri Administrative, Editura Risoprint, Cluj-Napoca, 2020, ISBN 978-973-53-2497-1.
2. **Tiuc A.E,** Vasile O, Tamas-Gavrea R, Combaterea Zgomotului, Editura Risoprint, Cluj-Napoca, 2019, ISBN 978-973-53-2357-8.
3. **Tiuc A.E.**, Abordări Tematice în Ingineria Dezvoltării Durabile - Aplicaţii, Editura Risoprint, Cluj-Napoca, 2015, ISBN 978-973-53-1711-9.
4. Vermeşan H., **Tiuc A.E.,** Fenomene de Transfer al Poluanţilor, Editura Risoprint, Cluj-Napoca, 2015, ISBN 978-973-53-1252-7.

V. Articole publicate în reviste ştiinţifice

Articole publicate în reviste cotate/indexate ISI

1. Tămaş-Gavrea R.-D., Dénes T.-O., Iştoan R., **Tiuc A. E.,** Manea D.L., Vasile O., A Novel Acoustic Sandwich Panel Based on Sheep Wool, Coatings, 2020, 10, 148; doi:10.3390/coatings10020148.
2. Borlea (Mureşan), S.I., **Tiuc, A.-E.,** Nemeş, O., Vermeşan, H., Vasile, O. Innovative Use of Sheep Wool for Obtaining Materials with Improved Sound-Absorbing Properties. Materials 2020, 13, 694. https://doi.org/10.3390/ma13030694
3. Vermeşan, H., **Tiuc, A.-E.,** Purcar, M. Advanced Recovery Techniques for Waste Materials from IT and Telecommunication Equipment Printed Circuit Boards. Sustainability, 2020, 12, 74. https://doi.org/10.3390/su12010074
4. Crişan O.A., Pustan M.S., Bîrleanu C.J., **Tiuc A.E.**, Sur I., Crişan H.G., Şerdean F.M., Flămînd L., Rusu T., Qualitative Analysis Of Filters For The Mechanical Nanofiltration

Of Household Drinking Water, Studia Universitatis Babeş-Bolyai Chemia, LXV, 1, 2020, p. 253-266, DOI:10.24193/subbchem.2020.1.20

5. **Tiuc A.E.,** Nemeş O., Vermesan H., Tamas-Gavrea R., Vasile O., New sound absorbing materials obtained from waste rigid polyurethane foam, Materiale Plastice, vol.56, No.4, 2019.
6. **Tiuc A.E.,** Nemeş O., Vermesan H., Toma A.C., New sound absorbent composite materials based on sawdust and polyurethane foam, Composites Part B: Engineering, vol. 65, 2019, 120-130. https://doi.org/10.1016/j.compositesb.2018.11.103
7. Gabor T., Dan V., **Tiuc A.E.**, Sur I.M, Badila I.N., Experimental Setup For Analysis Of Drain Water Heat Recovery System In Civil Buildings, Journal Of Environmental Protection And Ecology, Vol. 20, Issue 4, p.1960-1969, 2019, WOS:000510868400038
8. **Tiuc A.E.,** Vasile O., Vermesan H., Platon M.A., Sound Absorbing Insulating Composites Based On Polyurethane Foam And Waste Materials, Materiale Plastice, vol.55, No.3, 2018.
9. T Gabor, V Dan, IN Badila, **A.E. Tiuc**, IM Sur, Improving the energy efficiency of residential buildings by using a drain water heat recovery system, Environmental Engineering & Management Journal (EEMJ) Jul2017, Vol. 16 Issue 7, p1631-1636.
10. **Tiuc A.E**., Dan V., Vermeşan H., Gabor T., Proorocu M., *Recovery Of Sawdust And Particles Of Recycled Rubber By Making Them Into Sound Absorbing Materials*, Environmental Engineering and Management Journal, no. 5, May 2016, Vol.15, No. 5, 1093-1101, 2016.
11. Gabor T., Dan V., **Tiuc A.E.**,. Sur I.M, Badila I.N., *Modeling and simulation of heat transfer processes for heat exchangers with heat pipes used for recovering heat from wastewater*, Environmental Engineering and Management Journal, no. 5, 2016.
12. Rus V., Vermeşan H., Hegyi A., **Tiuc AE**, *Electrochemical impedance spectroscopy study - evolution modeling of corrosion products layer formed at hot dip galvanized rebar–fresh concrete interface*, Revista Română de Materiale / Romanian Journal of Materials 2016, 46 (2), 196 – 203.
13. **Tiuc A.E**, Nemeş O., Perhaiţa I., Vermeşan H., Gabor T., Dan V., *Thermal Behaviour of Polyurethane Matrix Composite Materials,* Studia Universitatis Babeş-Bolyai Seria Chemia, LX, 2, Tom I, pp. 169-176, 2015.
14. Rus V., Hegyi A., Vermeşan H., **Tiuc A.E**, *Steel Reinfocement in Fresh Concrete,* Studia Universitatis Babeş-Bolyai Seria Chemia, LX, 2, Tom II, pp. 409-419. 2015.
15. Todea D.A., Tonk S., **Tiuc A.E.**, Török A., Mânzatu C., Katona G., Majdik C., *Efficient Degradation of Phenol with Pseudomonas Putida Cells for the Production of Pure Water*, Studia Universitatis Babeş-Bolyai Chemia, Vol.58, issue 3, pp.125-134, 2013.
16. Todea D.A., Tonk S., **Tiuc A.E.**, Török A., Mânzatu C., Katona G., Majdik C., *Continuous Flow Waste Water Purification With Immobilized Cells*, Studia Universitatis Babeş-Bolyai Chemia, Vol.58, issue 3, pp.135-142, 2013.
17. **Borlea (Tiuc) A.,** Rusu T., Ionescu S., Nemeş, O., *Determination of sound absorption properties of some new composite materials obtained from wastes,* Revista Română de Materiale/Romanian Journal of Materials, vol.42, nr.4, pp. 405-414, 2012.
18. **Borlea (Tiuc) A.,** Rusu T., Vasile O., *Using particles of recycled rubber when making some soundproofing materials,* Materiale Plastice, vol. 49, nr.4, pp. 275-278, 2012.

Articole publicate în reviste indexate BDI

1. Dénes T.-O., Tămaș-Gavrea R.-D., **Tiuc A.E.,** et al., Natural Fibre Composite Panels For Thermal Insulation Of Buildings: A Review; Scientific Papers-Series Management Economic Engineering In Agriculture And Rural Development, Volume: 19, Issue: 4, Pages: 71-78 Published: 2019.

2. **Tiuc A.E.**, Vasile O, Vermeşan H., Nemeş O., Borlea (Muresan) S.I., New Multilayered Composite for Sound Absorbing Applications, Romanian Journal of Acoustics and Vibration, vol 15 issue 2/2018, pp. 115-121.

3. **Tiuc A.E.,** Vasile O, Vermeşan H., Nemeş O.,The Use of Mathematical Models in Determining Acoustic Absorption Coefficient of New Composite Porous Materials, Romanian Journal of Acoustics and Vibration, vol XIV issue 2/2017, pp. 97-101.

4. **Tiuc A.E.,** Vasile O, Vermeşan H., Acoustic Performance of Composite Materials Made from Textile Waste, Journal of Acoustics and Vibration, Volume XII, issue 2, pp.111-115, 2015.

5. Hegyi A., Rus V., **Tiuc A.E**, Grünwald E., Corrosion behavior of welded hot dip galvanized steel and the influence of the repair of the coating after welding, Korróziós Figyelõ, vol. 54, 2, pp.36-39, 2014.

6. Vermeşan H., **Tiuc A.E.,** Rus V., Sustainability of steel corrosion protection by hot dip galvanizing, ECOTERRA - Journal of Environmental Research and Protection, 2016, Volume 13, Issue 2, 43 - 51.

7. **Tiuc A.E.**, Vermeşan H., Gabor T., Factorii care influenţează proprietăţile fonoabsorbante ale materialelor, Stiinta si Inginerie, vol. 32, pag. 721-728, Agir, 2017, ISSN 2067-7138

8. Vermeşan H., **Tiuc A.E.,** Impactul compuşilor organici volatili asupra mediului şi posibilităţi de reducere prin cele mai bune tehnici disponibile, Stiinta si Inginerie, vol. 32, pag. 729-738, Agir, 2017, ISSN 2067-7138

9. Gabor T., Dan V., **Tiuc A.E.**, Bădilă I.N., Exploatarea şi recuperarea căldurii din surse energetice secundare cu potenţial termic coborât, Stiinta si Inginerie, vol. 32, pag. 751-760, Agir, 2017, ISSN 2067-7138

10. Vermeşan H., **Tiuc A.E.**, Rus V., *Sustainability of steel corrosion protection by hot dipgalvanizing*, ECOTERRA - Journal of Environmental Research and Protection, 2016, Volume 13, Issue 2, 43 - 51.

11. **Tiuc A.E.**, Vasile O, Vermeşan H., *Acoustic Performance of Composite Materials Made from Textile Waste*, Journal of Acoustics and Vibration, Volume XII, issue 2, pp.111-115, 2015.

12. **Tiuc A.E.**, Vermeşan H., Gabor T., *Superior Recovery Of Non-Metallic Waste By Making Sound Absorbing Materials*, Acta Technica Napocensis, Series: Environmental

Engineering and Sustainable Development Entrepreneurship, Cluj-Napoca, vol. 4, nr.2, pp. 35-42, 2015.

13. **Tiuc A.E.**, Vasile O., Gabor T., *Determination of Antivibrational and Acoustical Properties of Some Materials Made From Recycled Rubber Particles and Sawdust*, , Romanian Journal of Acoustics and Vibration, Volume XI, issue 1, pp.47-52, 2014.

14. **Tiuc A.E.**, Vasile O., Usca A.D., Gabor T., Vermeşan H., *The Analysis of Factors That Influence the Sound Absorption Coefficient of Porous Materials*, Journal of Acoustics and Vibration (SCOPUS), Volume XI, issue 2, 2014, pp.105-108.

15. Gabor T., Dan V., **Tiuc A.E.**, Bădilă I.N., *Analysis on heat pipes used to recover secondary resources*, ECOTERRA, Journal of Environmental Research and Protection, vol 11, no 4, 2014.

16. **Tiuc A.E.**, Moga L., *Improvement of Acoustic and Thermal Comfort by Turning Waste into Composite Materials*, Romanian Journal of Acoustics and Vibration, Volume X, issue 2, pp.77-82, 2013.

17. **Tiuc A.E.**, Rusu T., Vasile O., *The influence of perforations from the surface of a sound absorbing material on the sound absorption coefficient,* Romanian Journal of Acoustics and Vibration, Volume X, issue 1, pp.59-62, 2013.

18. **Borlea (Tiuc) A.,** Rusu T., Vasile O., *Investigation Composite Materials for its Sound Absorption Properties*, Romanian Journal of Acoustics and Vibration, Volume IX, issue 2, pp.123-126, 2012.

19. **Borlea (Tiuc) A.,** Rusu T., Ionescu S., *Research on obtaining soundproof materials from wastes*, Acta Technica Napocensis, Series: Environmental Engineering and Sustainable Development Entrepreneurship, Cluj-Napoca, vol. 1, nr.3, pp. 13-20, 2012.

20. **Borlea (Tiuc) A.,** Rusu T., Vasile O., Gheorghe A., *Determination of antivibratil properties of some materials made from wastes,* Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, vol. 55, Issue II, pp. 373-378, 2012.

21. **Borlea (Tiuc) A.,** Rusu T., Ionescu S., Creţu M., Ionescu A., *Acoustical materials – Phonoabsorbant materials made of pine sawdust,* Romanian Journal of Acoustics and Vibration, Volume VIII, issue 2, pp.95-98, 2011.

22. **Borlea (Tiuc) A.,** Rusu T., Şimon (Niste) S., *Theoretical considerations on sound absorption,* Analele Universităţii „Constantin Brâncuşi" Seria Inginerie nr.2, pp.89-97, 2011.

23. **Borlea (Tiuc) A.,** Rusu T., Şimon (Niste) S., *The use of soundproofing materials for noise reduction,* Analele Universitatii „Constantin Brâncuşi" Seria Inginerie nr.3, pp.387-397, 2010.

24. **Borlea (Tiuc) A.,** Rusu T., Şimon (Niste) S., *Necessity of today: Noise Reduction*, Buletinul Stiintific al Universitatii de Nord, SERIA D Exploatări Miniere Prepararea Substanţelor Minerale Utile Metalurgie Neferoasă Geologie şi Ingineria Mediului, vol.XXIV nr.1, pp.71-80, 2010.

25. **Borlea (Tiuc) A.**, Rusu T., *Poluarea sonoră şi reducerea ei*, Ştiinţă şi Inginerie, An X, vol.17, pp.585-590, 2010.

26. Şimon (Niste) S., Rusu T., **Borlea (Tiuc) A.**, *Efect of pH and temperature of enzymes on biological wastewater treatament,* Analele Universităţii „Constantin Brâncuşi" Seria Inginerie nr.2, pp.226-231, 2011.

27. Şimon (Niste) S., Rusu T., **Borlea (Tiuc) A.**, *Enzymatic mixture and the role in the environment protection,* Buletinul Stiintific al Universitatii de Nord, SERIA D Exploatări Miniere Prepararea Substanţelor Minerale Utile Metalurgie Neferoasă Geologie şi Ingineria mediului, vol. xxv nr.1, pp.99-104, 2011.

28. Şimon (Niste) S., Rusu T., **Borlea (Tiuc) A.**, *Biological wastewater treatment processes efficiency whit using of polienzymatics mixtures,* Analele Universităţii „Constantin Brâncuşi" Seria Inginerie nr.3, pp.523-531, 2010.

VI. Publicaţii apărute în lucrări ale conferintelor ISI Proceedings/BDI

Articole publicate în ISI proceedings

1. Fernea (Iştoan) R., Tămaş-Gavrea D-R., **Tiuc A-E.,** Manea D, The impact of volcanic rocks on sustainable building materials based on hemp and lime, 17th edition International Technical-Scientific Conference Modern Technologies for the 3rd Millennium, March 22-23, 2018 - Oradea (Romania), pp.363-368.
2. Tămaş-Gavrea D.-R., Munteanu C., Fernea (Iştoan) R., **Tiuc A.-E.,** Hâncu I., Babota F, Acoustic analysis of the Orthodox Church "The descent of the Holy Spirit" from Cluj-Napoca, 17th edition International Technical-Scientific Conference Modern Technologies for the 3rd Millennium, March 22-23, 2018 - Oradea (Romania), pp.261-266.
3. Platon M.A, Ştef M, Popa M, **Tiuc A.E.,** Nemeş O., Research on Recycling Mixed Wastes Based on Fiberglass and Organic Resins, EUROINVENT International Conference on Innovative Research, EUROINVENT ICIR 2018, Iasi; Romania; 17-19 May 2018, IOP Conference Series: Materials Science and Engineering, Volume 374, Issue 1.
4. Fernea (Iştoan) R., Tămaş-Gavrea D.R., Manea D.L., Molnar (Pleşa) L.M., Munteanu C., **Tiuc A.E.,** The influence of the binder and volcanic rocks in natural-organic building materials, , 11th International Interdisciplinary Conference in Engineering, INTER-ENG 2017, 5-6 October 2017, Târgu-Mureş, Romania.
5. **Tiuc A.E.**, Vermeşan H., Gabor T., Vasile O., *Improved sound absorption properties of polyurethane foam mixed with textile waste*, Energy Procedia, Volume 85, January 2016, Pages 559–565, EENVIRO-YRC 2015 – Bucharest.

Articole publicate în volume ale conferinţelor BDI

1. Gabor, T., **Tiuc, A.-E.**, Sur, I.M., Badila, I.N., Numerical analysis and simulation of the heat recovery from wastewater using heat exchanger, MATEC Web of Conferences

Volume 240, 27 November 2018, 02005, 11th International Conference on Computational Heat, Mass and Momentum Transfer, ICCHMT 2018; DOI: 10.1051/matecconf/201824002005

2. **Tiuc A.E.**, Gabor T, Sur I.M., Tamas-Gavrea D.R., Vermeşan H., Recovery of sawdust, recycled rubber particles and textile waste by making sound absorbing materials, 17 th International Multidisciplinary Scientific Geoconference SGEM 2017, 27-29 November, Viena, Austria, Vonferince Proceeding volume 17, Energy and Clean Tehnologies Issue 43, pp.171- 178.
3. Gabor T, **Tiuc A.E.**, Sur I.M., Badila IN, Heat exchanger utilizations in wastewater heat recovery for building: A key review, 17 th International Multidisciplinary Scientific Geoconference SGEM 2017, 27-29 November, Viena, Austria, Vonferince Proceeding volume 17, Energy and Clean Tehnologies Issue 43, pp.683- 694.
4. Sur IM, Gabor T, Chirila Babau AM, **Tiuc AE**, Research regarding as and Cd extraction from the polluted soils, 17 th International Multidisciplinary Scientific Geoconference SGEM 2017, 27-29 November, Viena, Austria, Vonferince Proceeding volume 17, Nano, Bio and Green – Technolories for a sustainable future, Issue 63, pp.327- 334.

VII. Alte lucrări şi contribuţii ştinţifice

Publicaţii în extenso apărute în volume ale conferinţelor neindexate

1. **Tiuc A.E,** Rusu T., Vasile O., *Influenţa perforaţiilor de pe suprafaţa unui material fonoabsorbant asupra coeficientului de absorbţie acustică,* A 37-a Conferinţa Internaţională de Mecanica Solidelor, Acustică şi Vibraţii, CNMSAV XXXVII, Vol.I, pp.66 - 70, Chişinău 2013.
2. **Tiuc A.E**, *Zgomotul şi consecinţele sale în contextul dezvoltării durabile,* Antreprenoriat, mediu de afaceri si dezvoltare durabila AMDD, Casa Cartii de Ştiinţă pp.105 - 118, Cluj-Napoca, 2013.
3. **Borlea (Tiuc) A.**, Rusu T., Vasile O., Gheorghe A., *Soundproofing materials whit recycled rubber particles and sawdust,* Proceedings of SISOM & ACOUSTICS, Annual Symposium of the Institute of Solid Mechanics (SISOM) and Symposium of Acoustics, Bucureşti, România, 30-31 mai 2012, pp. 291 – 296.
4. **Borlea (Tiuc) A.,** Rusu T., Ionescu S., Realizarea unor placi fonoabsorbante din materiale reciclate, Antreprenoriat, mediu de afaceri si dezvoltare durabila AMDD, Casa Cartii de Stiinta, pp.285 -290, Cluj-Napoca, 2012.
5. Gheorghe A., **Borlea (Tiuc) A.,** *Evaluation of absorbing performance for composite plates made from recycled waste,* Proceedings of SISOM & ACOUSTICS, Annual Symposium of the Institute of Solid Mechanics (SISOM) and Symposium of Acoustics, Bucureşti, România, 30-31 mai 2012, pp. 307 – 313,.
6. **Borlea (Tiuc) A.,** Rusu T., Şimon (Niste) S., *Opportunities for wood waste recycling by obtaining of new composite materials,* Brochure of the Conference 17th „Building Services, Mechanical and Building Industry Days", 13 October 2011, Debrecen, Hungary.
7. Şimon (Niste) S., Rusu T., **Borlea (Tiuc) A.**, *Remediating Phenolic Wastewaters Using Enzymes*, Brochure of the Conference 17th „Building Services, Mechanical and Building Industry Days", 2011, Debrecen, Hungary.

Participare la manifestări ştiinţifice

1. **Ancuţa Elena Tiuc**, Ovidiu Vasile, HoratiuVermesan, Ovidiu Nemeş New Multilayered Composite for Sound Absorbing Applications, The 42th International Conference on "Mechanics of Solids, Acoustics and Vibrations" - ICMSAV 2018, 25-26 OCT. 2018, BRAŞOV.
2. Tămaş-Gavrea D.-R., Munteanu C., Fernea (Iştoan) R., **Tiuc A.-E.**, Hâncu I., Babota F, Acoustic analysis of the Orthodox Church "The descent of the Holy Spirit" from Cluj-Napoca, , 17th edition International Technical-Scientific Conference Modern Technologies for the 3rd Millennium, March 22-23, 2018 - Oradea (Romania).
3. Platon M.A, Ştef M, Popa M, **Tiuc A.E.**, Nemeş O., Research on Recycling Mixed Wastes Based on Fiberglass and Organic Resins, EUROINVENT International Conference on Innovative Research, EUROINVENT ICIR 2018, Iasi; Romania; 17-19 May 2018.
4. **Tiuc A.E.**, Gabor T, Sur I.M., Tamas-Gavrea D.R., Vermeşan H., Recovery of sawdust, recycled rubber particles and textile waste by making sound absorbing materials, 17 th International Multidisciplinary Scientific Geoconference SGEM 2017, 27-29 November, Viena, Austria.
5. **Tiuc, A.E.**, Dragan, N.,"Scale models of composite layered sound absorbing materials for laboratory testing conditions" Poster presentation, The 1st International Conference on Experimental Mechanics EMECH 2016, 8-9 June 2016, Brasov;
6. **Tiuc A.E.**, Vermeşan H., Gabor T., Vasile O., *Improved sound absorption properties of polyurethane foam mixed with textile waste*, International Conference on „Sustainale Solutions for Energy and Environment" EENVIRO - YRC 2015 18 - 20 November 2015, Bucharest – ISI proceedings
7. **Tiuc A.E,** *Consideraţii asupra oportunităţilor antreprenoriale cu privire la valorificarea superioară a deşeurilor lemnoase prin realizarea de materiale fonoabsorbante*, Conferinţa Antreprenoriat, mediu de afaceri şi dezvoltare durabila (AMDD), 19 – 20 noiembrie, Cluj-Napoca, 2015.
8. **Tiuc A.E,** Vasile O, Vermeşan H., *Acoustic Performance of Composite Materials Made from Textile Waste,* 39th International Conference on Mechanics of Solids, Acoustics and Vibrations, 24-26 septembrie 2015, Reşiţa, România.
9. **Tiuc A.E,** Vasile O, *Usca A.D, The Analysis of Factors That Influence the Sound Absorption Coefficient of Porous Materials,* 38th International Conference on Mechanics of Solids, Acoustics and Vibrations ICMSAV XXXVIII, 3-5 septembrie 2014, Piteşti, România.
10. **Tiuc A.E,** *Zgomotul şi consecinţele sale în contextul dezvoltării durabile,* Conferinţa Antreprenoriat, mediu de afaceri şi dezvoltare durabila (AMDD), 4 – 5 iulie, Cluj-Napoca, 2013.
11. **Tiuc A.E,** Rusu T., Vasile O, *Influenţa perforaţiilor de pe suprafaţa unui material fonoabsorbant asupra coeficientului de absorbţie acustică,* A 37-a Conferinţa Internaţională de Mecanica Solidelor, Acustică şi Vibraţii, CNMSAV XXXVII, 6-8 Iunie 2013, Republica Moldova, Chişinău.
12. **Tiuc A.E,** Ligia Moga, *Improvement of Acoustic and Thermal Comfort by Turning Waste into Composite Materials,* EENVIRO Conference on „Sustainale Solutions for Energy and Environment, 19-20 septembrie 2013, Bucuresti.

13. **Borlea (Tiuc) A.,** Rusu T., Vasile O., Investigation Composite Materials for its Sound Absorption Properties, 36th Interbational Conference on Mechanics of Solids, Acoustics and Vibdations ICMSAV XXXVI, octomber 25-26, Cluj-Napoca, 2012.
14. **Borlea (Tiuc) A.,** Rusu T., Ionescu S., *Realizarea unor placi fonoabsorbante din materiale reciclate*, Conferinţa Antreprenoriat, mediu de afaceri şi dezvoltare durabila (AMDD), 2 – 3 iulie, Cluj-Napoca, 2012.
15. **Borlea (Tiuc) A.**, Rusu T., Vasile O., Gheorghe A., *Soundproofing materials whit recycled rubber particles and sawdust,* Annual Symposium of the Institute of Solid Mechanics (SISOM) and Symposium of Acoustics, Bucureşti, România, 30-31 mai 2012.
16. **Borlea (Tiuc) A.,** Rusu T., Şimon (Niste) S., *Opportunities for wood waste recycling by obtaining of new composite materials,* 17th „Building Services, Mechanical and Building Industry Days", Debrecen, Hungary, 13-14 October 2011.
17. **Borlea (Tiuc) A.,** Rusu T., Ionescu S., Creţu M., Ionescu A., *Acoustical materials – Phonoabsorbant materials made of pine sawdust,* The 10th International Conference Acoustics.Vibration, Petroşani, România, 29-30 septembrie 2011.
18. **Borlea (Tiuc) A.,** Rusu T., Şimon (Niste) S., *Theoretical considerations on sound absorption,* International Scientific Conference PRogress, INnovation, DEmocracy HORIZON 2025, Second edition Târgu -Jiu, România 3–4 iunie 2011.
19. **Borlea (Tiuc) A.,** Rusu T., Şimon (Niste) S., *Necessity of today: Noise Reduction,* International Conference „Mineral Resources and Environment", Baia Mare, România, 28-30 octombrie, 2010.
20. **Borlea (Tiuc) A.,** Rusu T., Şimon (Niste) S., *The use of soundproofing materials for noise reduction,* National scientific conference with international participation „CONFERENG 2010", Târgu-Jiu, România, 5-6 noiembrie 2010.

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