







PERSONAL INFORMATION

Mircea Horia Tiorean



-  3, Fantana Rosie Str., 500123 Brasov, Romania
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-  mtiorean@unitbv.ro
- 
-  skype/mtiorean

Sex M | Date of birth 12/11/1959 | Nationality Romanian

POSITION Professor

WORK EXPERIENCE

September 2011-present

Head of Materials Engineering and Welding Department

Transilvania University of Brasov, 29 Eroilor Blvd., 500036, Brasov, Romania, www.unitbv.ro

Management of the department, teaching, research, PhD supervising

[Business or sector](#) Education & research

May 2013-July 2015

Researcher

Red Dome Shelter SRL, 1 Bradului Str., 530182, Miercurea – Ciuc, Romania, www.reddome.eu

Design of geodesic domes, composite materials

[Business or sector](#) Research

March 2008 - March 2012

Dean of Materials Science and Engineering Faculty

Transilvania University of Brasov, 29 Eroilor Blvd., 500036, Brasov, Romania, www.unitbv.ro

Management of the faculty, teaching, research, PhD supervising

[Business or sector](#) Education & research

December 1989 - present

Professor (2000-present), Associate professor (1997-2000), Lecturer (1992-1997), Assistant (1989-1992)

Transilvania University of Brasov, 29 Eroilor Blvd., 500036, Brasov, Romania, www.unitbv.ro

Teaching and research

[Business or sector](#) Education & research

September 1996 - March 2008

Design (1996-2003), Quality manager (2003-2008)

Braflex Ltd., 6 Eremia Grigorescu Str., 500327, Brasov, Romania, www.braflex.ro

Design of couplings, valves, bearings, quality management

[Business or sector](#) Industry

September 1986 -December 1989

Researcher

Tractors Research Institute, 94, 13 Septembrie Str., 500164, Brasov, Romania

Design of industrial tractors, mobile cranes

[Business or sector](#) Research

September 1984 -September 1986

Engineer

Metaloplast SA, 38, Ecaterina Teodoroiu Str., 500450, Brasov, Romania

Design of technology, tools and devices

[Business or sector](#) Industry

EDUCATION AND TRAINING

- 1990 - 1995

Ph. D. in Mechanical Engineering

Transilvania University of Brasov, Romania

 - Optimisation, reliability, structures

8 EQF level
- 1989 - 1990

Post-university Degree

Politehnica University of Bucharest, Romania

 - Stress measurement

6 EQF level
- 1979 - 1984

B.Sc.M.E

Transilvania University of Brasov, Romania

 - Manufacturing engineering

6 EQF level

PERSONAL SKILLS

Mother tongue Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B1	B1
French	C1	C1	C1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills

- good communication skills gained through my didactic experience
- team spirit

Organisational / managerial skills

- leadership (currently responsible for a team of 16 people)
- research management acquired as responsible for research of FP7 grant
- organizational skills acquired as a member of the Steering Committee of Norbert Detaeye Mediateca and BraMat conferences

Job-related skills

- international cooperation
- good command of quality control processes

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Proficient user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing software gained as an amateur photographer
- Autodesk Inventor, Autodesk Simulation, Abaqus, Cosmos, MathCAD

Other skills ▪ research and education evaluation (CNCSIS 2004-2010, CEEEX 2005, CNMP 2007-2008, ARACIS 2007-present, CNATDCU 2013-present)

Driving licence ▪ B

ADDITIONAL INFORMATION

Publications

- books = 14
- co-editor international conferences = 3
- papers in ISI Journals = 25
- papers in ISI Proceedings = 18
- papers in BDI Journals = 22
- papers in Romanian Journals = 33
- patents =3

Presentations

- presentations at international conferences = 42
- presentations at Romanian conferences = 32

Projects

- international projects = 6
- Romanian projects = 11

Memberships

- Romanian Welding Association
- Romanian Fracture Mechanics Association

References Citations

- References are available on request
- 34

ANNEXES

- publications and scientific work

07.01.2016

Mircea Horia Terean



Publications and Scientific WorkProf. **Mircea Horia Tiorean**, Transilvania University of Brasov, Romania**(a) Ph. D. Thesis:***“Contributions to the optimization based on reliability of strength structures”*

Supervisor: Prof.dr.eng. Ioan A. Goia, 1995

(b) Books:

1. Luca, M.A., Tiorean, M.H., *Elemente de știința materialelor (Materials science elements)*, Editura Universității “Transilvania” Brașov, Editura Universității “Transilvania” Brașov, ISBN 978-606-19-0635-2, 2015, 263 pag.
2. Leoveanu, I.S., Tiorean, M.H., *Metode numerice avansate: aplicații în modelarea metalelor (Advanced numerical methods: applications in metals modelling)*, Editura Universității “Transilvania” Brașov, ISBN 978-973-598-671-1, 2009, 200 pag.
3. Ceorapin, G.C., Tiorean, M., Roată, I.C., *Metode Numerice. Lucrări de laborator în MatLab (Numerical methods. Lab works in MatLab)*, Editura Lux Libris, ISBN 978-973-131-000-8, 2007, Brașov, 242 pag.
4. Goia, I., Vlase, S., Tiorean, M., Dimitriu, S., Teodorescu, H., Pop, O., Plamadeala, R., *Rezistența materialelor. Capitoale speciale. Probleme (Strength of materials, Special chapters. Problems)*, Editura Lux Libris Brașov, ISBN 978-973-9458-92-4, 2007, 278 pag.
5. Tiorean, M., Eftimie, L., Baltes, L., *Materials Science*, Editura Universității “Transilvania” Brașov, ISBN 973-635-684-1, 2006, 322 pag.
6. Tiorean, M., *Mecanica ruperii (Fracture mechanics)*, Editura Lux Libris Brașov, ISBN 973-9240-98-4, 1999, 209 pag.
7. Tiorean, M., Machedon, T., Luca, V., *Ghid de control cu ultrasunete (Ultrasonic testing guide)*, Editura Universității “Transilvania” Brașov, ISBN 973-9474-27-6, 1999, 158 pag.
8. Tofan, M., Goia, I., Tiorean, M., Ulea, M., *Deformatele structurilor (Structures’ strains)*, Editura Lux Libris Brașov, ISBN 973-96854-2-0, 1995, 248 pag.
9. Olah, A., Tiorean, M., *Alegerea materialelor (Choosing materials)*, Universitatea “Transilvania” Brașov, 2002, 107 pag.
10. Tiorean, M., Eftimie, L., Radu, G., *Technical engineering, Laboratory Guide*, Universitatea “Transilvania” Brașov, 2002, 104 pag.
11. Tiorean, M., Eftimie, L., Radu, G., *Technical engineering*, Universitatea “Transilvania” Brașov, 2001, 306 pag.
12. Tiorean, M., *Analiza avariilor structurilor sudate (Failure analysis of welded structures)*, Universitatea “Transilvania” Brașov, 1996, 194 pag.
13. Goia, I., Sperchez, F., Ciofoaia, V., Radu, G., Ulea, M., Tiorean, M., *Rezistența materialelor. Culegere de probleme (Strength of materials. Problems)*, Universitatea “Transilvania” Brașov, 1991, 358 pag.
14. Novac, G., Dinescu, I., Tiorean, M., Cătană, D., Bogdan, C., Novac, N., *Proiectarea mașinilor, utilajelor și construcțiilor sudate. Îndrumar de lucrări practice, (Weldes structures design. Practical works)*, Universitatea “Transilvania” Brașov, 1998, 49 pag.

(c) Co-editor international conference:

1. Munteanu, D., Tiorean, M.H., *Advanced Technologies of Materials Processing*, Advanced Materials Research Vol. 1128, Trans Tech Publications, ISBN-13: 978-3-03835-637-0, 2015, 420 pag.
2. Tiorean, M., Rață, C., *Cadrul organizatoric, probleme și metode de soluționare pentru aplicații energetice eficiente în diferite tipuri de clădiri din România (The organizational problems and solving methods for applications in various types of energy efficient buildings in Romania)*, Editura Universității “Transilvania” Brașov, ISBN 973-635-282-X, 2004, 277 pag.

3. Ștefănescu, D., Ruxanda, R., Tiorean, M., Șerban, C., (editors) *Proceedings of the International Conference on the Science of Casting and Solidification*, Editura Lux Libris Brașov, ISBN 973-9428-67-3, 2001, 418 pag.

(d) Papers:

(d1) ISI Journals:

1. Pascu, A., Stanciu, E.M., Voiculescu, I., Tiorean, M.H., Roata, I.C., Ocana J.L., Chemical and Mechanical Characterization of AISI 304 and AISI 1010 Laser Welding, *Materials and Manufacturing Processes*, 31: 2016, p. 311-318. IF=1.629
2. Andrei, O.C., Daguci, C., Scriciu, M., Tiorean, M.H., Burlibasa, M., Tanasescu, L.A., Advantages of using acrylic and metal-composite crowns in mandibular single implant restorations - FEA study, *Revista de Materiale Plastice*, nr. 52, vol. 4, 2015, p. 480-483. IF=0.824
3. Tiorean, M., Baltes, L., Luca, M., Banea, A., Measurements of dynamic Young modulus of AISi10Mg alloy cast in vibrating field, *Journal of Optoelectronics and Advanced Materials*, Vol. 17, No. 11-12, November - December 2015, p. 1868-1873. IF=0.429
4. Croitoru, C., Patachia, S., Papancea, A., Baltes, L., Tiorean, M., Glass fibres reinforced polyester composites degradation monitoring by surface analysis, *Applied Surface Science*, 358 (2015), p. 518-524. IF=2.711
5. Costiuc, L., Tiorean, M., Baltes, L., Patachia, S., Experimental Investigation on the Heat of Combustion for Solid Plastic Waste Mixtures, *Environmental Engineering and Management Journal*, 14(2015), 6, 2015, p. 1295-1302. IF=1.065
6. Patachia, F.S.C., Catana Damian, L.N., Tiorean, M., Baltes, L., Microbial Safety of Plastic Materials Obtained from Wastes, *Environmental Engineering and Management Journal*, 14(2015), 6, 2015, p. 1303-1312. IF=1.065
7. Baltes, L.S., Tiorean, M.H., Patachia, S., Investigation on the friction coefficient of the composite materials obtained from plastics wastes and cellulosic fibres, *Journal of Optoelectronics and Advanced Materials*, Vol. 15, No. 7- 8, July - August 2013, p. 785 - 790. IF=0.563
8. Ursutiu D., Samoila C., Baltes L.S., Tiorean M.H., Vekas L., Jinga V., Labview in ultrasound plastic materials measurement, *Journal of Optoelectronics and Advanced Materials*, Vol. 15, No. 7- 8, July - August 2013, p. 750 - 754. IF=0.563
9. Roman I.B., Tiorean M.H., Ocaña J.L., Munteanu C., Microstructural characterization and friction coefficient after the laser shock processing treatment on AISI 316 L stainless steel welds, *Journal of Optoelectronics and Advanced Materials*, Vol. 15, No. 7- 8, July - August 2013, p. 645-649. IF=0.563
10. Rem, P., Di Maio, F., Hu, B., Houzeaux, G., Baltes, L., Tiorean, M., Magnetic fluid equipment for sorting of secondary polyolefins from waste, *Environmental Engineering and Management Journal*, 12 (2013), 5, p. 951-958. IF=1.258
11. Martel Fuentes, O., Mirza Rosca, J. Rodriguez Galindo, E. Baltes, L.S., Tiorean, M.H., Electrochemical impedance spectroscopy characterization of passive film formed on Ti-Ta alloys, *Metalurgia International*, Special issue vol. XVIII no. 6 (2013) ISSN 1582 - 2214, p. 18-22. IF=0.134
12. Tiorean, M.H., Baltes, L.S., Rem, P.C, Foris, T. Feasibility study of the production of secondary polyolefins from the plastic wastes using magnetic density separation, *Metalurgia International*, Special issue vol. XVIII no. 5 (2013) ISSN 1582 - 2214, p. 149-152. IF=0.134
13. Andrei, O.C., Dina, M.N., Mărgărit, R., Tiorean, M.H., 3D finite elements analysis of stresses in a 3 unit mandibular metal-ceramic bridge, *Metalurgia International*, vol. XVIII (2013), no. 3, ISSN 1582-2214, p. 132-137. IF=0.134
14. Oláh A., Tiorean, M.H., Verő B., Research about the properties of metal coating layers, *Metalurgia International*, Special issue vol. XIX no. 2 (2013) ISSN 1582 - 2214, p. 97-99. IF=0.134
15. Roman, I.B., Tiorean, M.H., Ocaña, J.L., Effects of laser shock processing on 316L stainless steel welds, *Journal of Optoelectronics and Advanced Materials*, Vol. 15, No. 1- 2, January - February 2013, ISSN 1454-4164, p. 121-124. IF=0.563

16. Oláh, A., Tierean, M.H., Verő, B., Munteanu, C., Barbinta, A., Influence of laser heat treatment on metal coating layers, *Journal of Optoelectronics and Advanced Materials*, Vol. 15, No. 1- 2, January - February 2013, ISSN 1454-4164, p. 114-120. IF=0.563
17. Moldovan, A., Patachia, S., Vasile, C., Darie, R., Manaila, E., Tierean, M., Natural Fibres/Polyolefins Composites (I) UV and Electron Beam Irradiation, *Journal of Biobased Materials and Bioenergy*, 7, DOI: <http://dx.doi.org/10.1166/jbmb.2013.1273>, p. 58-79, 2013. IF= 0.586
18. Olah, A. Tierean, M.H., Research about the possibilities to increase the hardness of welded coating layers, *Journal of Optoelectronics and Advanced Materials*, Vol. 13, No. 7, July 2011, ISSN 1454-4164, p. 852 - 854. IF=0.457
19. Olah, A. Tierean, M.H., Research about influence of nitrocarburizing on metal coating layers, *Metalurgia International*, vol. XVI (2011), issue 5, ISSN 1582-2214, p. 149-152. IF= 0.084
20. Tierean, M.H., Adherence of multilayer metal coating of tubes in vibrating field, *Metalurgia International*, vol. XVI (2011), issue 3, ISSN 1582-2214, p. 58-62. IF= 0.084
21. Olah, A., Tierean, M.H., Giacomelli, I., Research about the practical diffusion coefficient of nitrogen and carbon at nitrocarburizing, *Metalurgia International*, vol. XVI (2011), issue 1, ISSN 1582-2214, p. 74-76. IF= 0.084
22. Machedon Pisu, T., Tierean, M., Baltés, L., Aspects concerning the technical diagnosis of material and welding joints of air conditioning tower in cement industry, *Metalurgia International*, vol. XV (2010), issue 5, ISSN 1582-2214, p. 45-51. IF=0.154
23. Toldy, A., Bodzay, B., Tierean, M., Recycling of Mixed Polyolefin Wastes, *Environmental Engineering and Management Journal*, July/August 2009, Vol.8, No.4, p. 967-971. IF=0.885
24. Baltés, L., Draghici, C., Manea, C., Ceausescu, D., Tierean, M., Trends in Selective Collection of the Household Waste, *Environmental Engineering and Management Journal*, July/August 2009, Vol.8, No. 4, p. 985-991. IF=0.885
25. Tierean, M., Baltés, L., Simulation of Damage in Elastic-plastic Materials Using the Fracture Mechanics Criteria, *Metalurgia International*, vol. XIV (2009), special issue 2, ISSN 1582-2214, p. 155-158. IF=0.173

(d2) ISI Proceedings:

1. Mirza Rosca, J., Baltés, L.S., Tierean, M.H., The effect of Mo and Al on the corrosion behavior of titanium and some of its alloys for biomedical applications, *Solid State Phenomena*, Vol. 216 (2014), Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/SSP.216.11, p. 11-16.
2. Olah A., Tierean M.H., Research about relation between the microstructures and mechanical properties of metal coating layers, *Solid State Phenomena*, Vol. 216 (2014), Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/SSP.216.169, p. 169-174.
3. Roman, I.B., Tierean, M.H., Baltés, L.S., Mirza Rosca, J., The effect of laser shock processing on corrosion resistance of stainless steel AISI 316L, *Solid State Phenomena*, Vol. 216 (2014), Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/SSP.216.210, p. 210-215.
4. Olah, A. Tierean, M.H., Research about the wear resistance of metal coating layers, *Solid State Phenomena*, Vol. 188 (2012), p. 428-432, DOI: 10.4028/www.scientific.net/SSP.188.428, ISSN: 1012-0394.
5. Tierean, M., Baltés, L., Design of Valves Used in Reciprocating Compressors, *Recent Advances in Applied and Theoretical Mechanics, Proceedings of the 5th WSEAS International Conference on Applied and Theoretical Mechanics (MECHANICS '09)*, ISBN: 978-960-474-140-3, Published by WSEAS Press, 2009, p. 138-143.
6. Baltés, L., Tierean, M., Versatility and low cost modular tools, advances in manufacturing engineering, *Quality and Production Systems (Volume II), Proceedings of the 1st International Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS '09)*, ISBN: 978-960-474-122-9, Published by WSEAS Press, 2009, p. 291-295.
7. Tierean, M., Baltés, L., Computing of Stress Intensity Factor using J-Integral Method with F.E.A., *Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM*

- Symposium*, ISBN 978-3-901509-70-4, ISSN 1726-9679, pp 553, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2009, p. 1105-1106.
8. Baltes, L., Tiorean, M., Influence of the part shape on the polymer flow inside mold an overall strength, *Annals of DAAAM for 2009 & Proceedings of the 20th International DAAAM Symposium*, ISBN 978-3-901509-70-4, ISSN 1726-9679, pp 553, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2009, p. 1107-1108.
 9. Tiorean, M., Baltes, L., Eftimie, L., Design of the Bridges Structures Using Mathcad, *Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium*, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp 696, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2008, p. 1389-1390.
 10. Tiorean, M., Baltes, L., Eftimie, L., Optimisation of Structures Based on Reliability, *Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium*, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp 696, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2008, p. 1391-1392.
 11. Baltes, L., Tiorean, M., Eftimie, L., Advanced Design of High Pressure Die Casting Moulds, *Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium*, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp 696, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2008, p. 0065-0066.
 12. Baltes, L., Tiorean, M., Eftimie, L., High Speed Machining with Internet Monitoring, *Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium*, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp 696, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2008, p. 0067-0068.
 13. Eftimie, L., Tiorean, M., Baltes, L., CAD Modelling of Couplings To Extend Reliability, *Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium*, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp 696, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2008, p. 0473-0474.
 14. Eftimie, L., Tiorean, M., Baltes, L., Mold Pattern Technological CAD Design of the Compressor Cross-Head (2008). *Annals of DAAAM for 2008 & Proceedings of the 19th International DAAAM Symposium*, ISBN 978-3-901509-68-1, ISSN 1726-9679, pp 696, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2008, p. 0475-0476.
 15. Tiorean, M., Eftimie, L., Baltes, L., C.F.D. in Reciprocating Compressor's Valves, *Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium*, ISBN 3-901509-58-5, ISSN 1726-9679, pp 382, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2007, p. 757-758.
 16. Baltes, L., Tiorean, M., Eftimie, L., Stress Concentration on Welded Joints' Cracks, *Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium*, ISBN 3-901509-58-5, ISSN 1726-9679, pp 382, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2007, p. 053-054.
 17. Eftimie, L., Tiorean, M., Baltes, L., Compensation of Compressor Rods Deformations Using Superbolts, *Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium*, ISBN 3-901509-58-5, ISSN 1726-9679, pp 382, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2007, p. 269-270.
 18. Tofan, M., Tiorean, M., Baltes, L., Eftimie, L., Design of Geodesic Dome Structures, *Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium*, ISBN 3-901509-58-5, ISSN 1726-9679, pp 382, Editor B. Katalinic, Published by DAAAM International, Vienna, Austria, 2007, p. 763-764.

(d3) BDI Journals:

1. Tănăsescu, L.A., Imre, M., Dăguci, C., Tiorean, M.H., Munteanu, D., Andrei, O.C., Influence of the Implant Prosthetic Restorations Components on the Stress Values and Distribution in Surrounding Bone - Finite Element Analysis Study, *Journal of Gerontology & Geriatric Research*, doi:10.4172/2167-7182.1000242, 2015, Volume 4 • Issue 5, p. 1-5.
2. Bălțatu, M.S., Vizureanu, P., Tiorean, M.H., Minciună, M.G., Achiței, D.C., Ti-Mo Alloys Used in Medical Applications, *Advanced Materials Research*, Vol. 1128 (2015), Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.1128.105, p. 105-111.

3. Mon, I.C., Tierean, M.H., Nofal, A., Research on GTAW/SMAW Weldability of ADI/DI Using Electrodes ENi-CI and ENiFe-CI-A, *Advanced Materials Research*, Vol. 1128 (2015), Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.1128.242, p. 242-253.
4. Tierean M.H., Baltas L.S., Banea A., Influence of the vibrations on AISi10Mg casting alloy structure, *Advanced Materials Research*, Vol. 1114 (2015), Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.1114.166, p. 166-171.
5. Feldiorean, D.I., Tierean, M.H., Overview on DLC Layers Used to Increase the Tribological Properties, *Bulletin of the Transilvania University of Braşov*, Series I, Vol. 8 (57) No. 1 - 2015, p. 43-50.
6. Mon, I.C., Tierean, M.H., A Review on Tests of Austempered Ductile Iron Welding, *Bulletin of the Transilvania University of Braşov*, Series I, Vol. 8 (57) No. 1 - 2015, p. 49-66.
7. Andrei, O.C., Tănăsescu, L.A., Mărgărit, R. Tierean, M.H., Stress study of removable partial denture with attachments using finite element analysis, *Applied Mechanics and Materials*, Vol. 659 (2014), Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMM.658.389, p. 389-394.
8. Banea, A.S., Tierean, M.H., Influence of vibrations on mechanical properties of AISi10Mg cast, *Metalurgia*, no. 8, 2013, p. 23-29.
9. Tierean, M.H., Munteanu, D., The 8th Edition of International Conference on Materials Science & Engineering, BRAMAT 2013, *Bulletin of the Transilvania University of Brasov*, vol. 6 (55) No.1 - 2013, series I - Engineering Sciences, ISSN 2065-2119 (Print), ISSN 2065-2127 (CD-ROM), 2013, p. 75-76.
10. Moldovan, A., Patachia, S., Buican, R., Tierean, M.H., Characterization of polyolefins wastes by FTIR spectroscopy, *Bulletin of the Transilvania University of Brasov*, Series I: Engineering Sciences, Vol. 5 (54) No. 2 - 2012, p. 65-72.
11. Patachia, S., Moldovan, A., Tierean, M., Baltas, L., Composition Determination of the Romanian Municipal Plastics Wastes, *The 26th International Conference on Solid Waste Technology and Management, March 27 - 30, 2011, Philadelphia, U.S.A., Journal of Solid Waste Technology and Management*, ISSN 1091-8043, pag 940-951.
12. Costiuc, L., Patachia, S., Baltas, L., Tierean, M., Investigation on Energy Density of Plastic Waste Materials, *The 26th International Conference on Solid Waste Technology and Management, March 27 - 30, 2011, Philadelphia, U.S.A., Journal of Solid Waste Technology and Management*, ISSN 1091-8043, pag 930-939.
13. Banea, A.S., Roman, I.B., Galea, A., Tierean, M.H., Study on the influence of mechanical vibrations alloys properties, *International conference AFASES 2011, Brasov, 26-28 May 2011*, p. 840-844.
14. Roman, I.B., Banea, A.S., Tierean, M.H., A Review on Mechanical Properties of Metallic Materials after Laser Shock Processing, *Bulletin of the Transilvania University of Brasov*, Vol. 4 (53) No. 2 - 2011 ISSN 2065-2119 (Print), ISSN 2065-2127 (CD-ROM), Published by Transilvania University Press Brasov, Romania, 2011, p. 81-86.
15. Tierean, M., Evaluation of stresses in the air conditioning tower in cement industry, *Recent*, vol. 12 (2011), no. 1 (31), ISSN 1582-0246, Published by Transilvania University Press Brasov, Romania, 2011, p. 73-76.
16. Patachia, S., Moldovan, A., Buican, R., Vasile, C., Darie, R., Tierean, M., Composite Materials based on Polyolefin Wastes, *Proceedings of the 14th European Conference on Composite Materials, 7-10 June 2010, Budapest, Hungary*, ISBN: 978-963-313-008-7, p. 1-13.
17. Vajna, B., Palásti, K., Bodzay, B., Toldy, A., Patachia, S., Buican, R., Catalin, C., Tierean, M., Complex analysis of car shredder light fraction, *The Open Waste Management Journal*, 2010, 3, ISSN 1876-4002, p. 46-55.
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