

PERSONAL INFORMATION

Mircea Horia Țierean
 mtierean@unitbv.ro

 POSITION
IOSUD UTBV

 PhD Coordinator
 Doctoral studies field: Materials engineering
 Since 2009

 EXPERTISE FIELD AND
RESEARCH INTEREST AREAS

Materials engineering / Surfaces engineering / Polymers / Recycling / Materials characterization

WORK EXPERIENCE

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
- [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
- [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
- [Industry](#)

 September 1986 - December
1989

Researcher

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

- Design of industrial tractors, mobile cranes
- [Research](#)

 September 1984 - September
1986

Engineer

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

- Design of technology, tools and devices
- [Industry](#)

EDUCATION AND TRAINING

1990 - 1995

Ph. D. in Engineering

8 EQF level

Transilvania University of Brasov, Romania

- Optimisation, reliability, structures

1989 - 1990

Post-university Degree

6 EQF level

Politehnica University of Bucharest, Romania

- Stress measurement

1979 - 1984

B.Sc.M.E

6 EQF level

Transilvania University of Brasov, Romania

- Manufacturing engineering

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B1	B1
	Replace with name of language certificate. Enter level if known.				
French	C1	C1	C1	B1	B1
	Replace with name of language certificate. Enter level if known.				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- good communication skills, acquired through teaching and management experience
- team spirit

Organisational / managerial skills

- leadership
- research management acquired as responsible 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 skills	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, MathCAD

Other skills

- research and education evaluation (CNCSIS 2004-2010, CEEX 2005, CNMP 2007-2008, ARACIS 2007-present, CNATDCU 2012-2016, 2017-2020)

ADDITIONAL INFORMATION

- Publications
 - books = 14
 - international conferences co-editor = 5
 - papers in Clarivate Analytics Journals = 42
 - papers in Clarivate Analytics Proceedings = 23
 - papers in BDI Journals = 33
 - patents = 4
- Presentations
 - presentations at international conferences = 42
 - presentations at Romanian conferences = 32
- Projects
 - international projects = 6
 - Romanian projects = 12
- Memberships
 - Romanian Welding Association
 - Romanian Fracture Mechanics Association
- Citations
 - in Clarivate Analytics Journals = 76
- H Indexes
 - Clarivate Analytics (h-index=6), Scopus (h-index=6)

ANNEXES

15.03.2020

Mircea Horia Țierean

LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)

1. *Nanotechnology*, volume: 31, issue: 3, article number: 035301, published: 2020-Jan-17 (Epub 2019 Sep 27), DOI:10.1088/1361-6528/ab4889, WOS:000501840300001, IF=3.399, (corresponding author), <https://iopscience.iop.org/article/10.1088/1361-6528/ab4889>.
2. Luca, M.A., Tierean, M.H., Machedon Pisu, T., Rodriguez, J., Croitoru, C., The influence of concentrated solar energy flux on the structure and properties of stainless steel brazed joints, *Journal of thermal analysis and calorimetry*, 2019, DOI: 10.1007/s10973-019-09113-8, WOS:000500853500007, IF=2.471, <https://link.springer.com/article/10.1007/s10973-019-09113-8>.
3. Yan, G., Wu, Y., Cristea, D., Liu, L., Tierean, M., Wang, Y., Lu, F., Wang, H., Yuan, Z., Munteanu, D., Zhao, D., Mechanical properties and wear behavior of multi-layer diamond films, deposited by hot-filament chemical vapor deposition, *Applied Surface Science*, vol. 494, 2019, pages 401-411, DOI: 10.1016/j.apsusc.2019.07.110, WOS:000487838900046, IF=5.155, <https://www.sciencedirect.com/science/article/pii/S0169433219321464>.
4. Baltas, L., Costiuc, L., Patachia, S., Tierean, M., Differential scanning calorimetry—a powerful tool for the determination of morphological features of the recycled polypropylene, *Journal of Thermal Analysis and Calorimetry*, Vol: 138, Issue: 4, Pages: 2399-2408, DOI: 10.1007/s10973-019-08679-7, WOS:000499703500004, IF=2.471, <https://link.springer.com/article/10.1007/s10973-019-08679-7>.
5. Pascu, A., Stanciu, E.M., Croitoru, C., Roata, I.C., Mirza Rosca, J., Cimpoesu, N., Tierean, M.H., Bogatu, C., Pulsed Laser Cladding of NiCrBSiFeC Hardcoatings Using Single-Walled Carbon Nanotube Additives, *Journal of Nanomaterials*, vol. 2019, article ID 2401295, 12 pages, <https://doi.org/10.1155/2019/2401295>, WOS:000487080800001, IF=2.233, <https://www.hindawi.com/journals/jnm/2019/2401295/>.
6. Yan, G.Y., Wu, Y.H., Cristea, D., Lu, F., Wang, Y.B., Zhao, D.H., Tierean, M., Liu, L.S., Machining performance of hard-brittle materials by multi-layer micro-nano crystalline diamond coated tools, *Results in Physics*, Volume: 13, 2019, Article Number: 102303, DOI: 10.1016/j.rinp.2019.102303, WOS:000476618700191, IF=3.042, <https://www.sciencedirect.com/science/article/pii/S2211379719307417>.
7. Patachia, S., Croitoru, C., Baltas, L., Tierean, M., Colors distribution in polymer wastes and color prediction of recycled polymers, *Environmental Engineering and Management Journal*, Volume: 18 Issue: 5, 2019, Pages: 1039-1048, WOS:000473511200009, IF=1.186, <http://eemj.eu/index.php/EEMJ/article/view/3866>.
8. Feldiorean, D., Cristea, D., Tierean, M., Croitoru, C., Gabor, C., Jakab-Farkas, L., Cunha, L., Barradas, N.P., Alves, E., Craciun, V., Marin, A., Moura, C., Leme, J., Socol, M., Craciun, D., Cosnita, M., Munteanu, D., Deposition temperature influence on the wear behaviour of carbon-based coatings deposited on hardened steel, *Applied Surface Science*, 475 (2019) 762–773, DOI: 10.1016/j.apsusc.2019.01.028, WOS:000458482100090, IF=5.155, <https://www.sciencedirect.com/science/article/pii/S016943321930042X>.
9. Baltas, L., Tierean, M., Patachia, S., Ekincioglu, O., Ozkul, H.M., Photoactive glazed polymer–cement composite, *Applied Surface Science*, 2018, Volume: 438, Pages: 84-95, ISSN: 0169-4332, DOI: 10.1016/j.apsusc.2017.09.068, WOS:000425731200011, IF=4.439, <https://www.sciencedirect.com/science/article/pii/S0169433217327174>.
10. Stanciu, E.M., Pascu, A., Croitoru, C., Tierean, M., Mirza Rosca, J., Hulka, I., Solar radiation synthesis of functional carbonaceous materials using Al₂O₃/TiO₂-Cu-HA doped catalyst, *Applied Surface Science*, 2018, Volume: 438, Pages: 33-40, ISSN: 0169-4332, DOI: 10.1016/j.apsusc.2017.10.092, WOS:000425731200005, IF=4.439, <https://www.sciencedirect.com/science/article/pii/S0169433217330386>.
11. Olah, A., Croitoru, C., Tierean, M.H., Surface properties tuning of welding electrode-deposited hardfacings by laser heat treatment, *Applied Surface Science*, 2018, Volume: 438, Pages: 41-50, ISSN: 0169-4332, DOI: 10.1016/j.apsusc.2017.10.090, WOS:000425731200006, IF=4.439, <https://www.sciencedirect.com/science/article/pii/S0169433217330362>.
12. Stanciu, E.M., Pascu, A., Tierean, M.H., Roata, I.C., Voiculescu, I., Hulka, I., Croitoru, C., Dissimilar Laser Welding of AISI 321 and AISI 1010, *Tehnicki Vjesnik-Technical Gazette*, 2018, Volume: 25, Issue: 2, Pages: 344-349, ISSN: 1330-3651, DOI: 10.17559/TV-20160722151049, WOS:000430936800006, IF=0.644, https://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=293187.
13. Pascu, A., Stanciu, E.M., Croitoru, C., Roata, I.C., Tierean, M.H., Carbon Nanoparticle-Supported Pd Obtained by Solar Physical Vapor Deposition, *Advances in Materials Science and Engineering*, 2018, Article ID 4730192, 7 pages, 2018, ISSN: 1687-8434, DOI: 10.1155/2018/4730192, WOS:000426193300001, IF=1.399, <https://www.hindawi.com/journals/amse/2018/4730192/>.
14. Stanciu, E.M., Pascu, A., Tierean, M.H., Voiculescu, I., Roata, I.C., Croitoru, C., Hulka, I., Dual Coating Laser Cladding of NiCrBSi and Inconel 718, *Materials and Manufacturing Processes*, Volume: 31, Issue: 12, Pages: 1556-1564, ISSN: 1042-6914, DOI: 10.1080/10426914.2015.1103866, WOS:000381388400003, 1.419, <http://www.tandfonline.com/doi/abs/10.1080/10426914.2015.1103866?journalCode=lmmp20>.
15. Croitoru, C., Patachia, S., Papancea, A., Baltas, L., Tierean, M., Glass fibres reinforced polyester composites degradation monitoring by surface analysis, *Applied Surface Science*, Volume: 358, Pages: 518-524, Part: B, ISSN: 0169-4332, DOI: 10.1016/j.apsusc.2015.06.070, WOS:000366220500003, IF=3.15, <http://www.sciencedirect.com/science/article/pii/S0169433215014051>.

16. Țierean, M., Baltas, L., Luca, M., Banea, A., Measurements of dynamic Young modulus of AlSi10Mg alloy cast in vibrating field, *Journal of Optoelectronics and Advanced Materials*, Volume: 17, Issue: 11-12, Pages: 1868-1873, ISSN: 1454-4164, WOS:000368046700038, IF=0.588 in 2018, https://www.researchgate.net/publication/292051314_Measurements_of_dynamic_Young_modulus_of_AlSi10Mg_alloy_cast_in_vibrating_field.
17. Roman, I.B., Țierean, 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, ISSN: 1454-4164, WOS:000323397900008, IF=0.563 (corresponding author) https://www.researchgate.net/publication/269688167_Microstructural_characterization_and_friction_coefficient_after_the_laser_shock_processing_treatment_on_AISI_316_L_stainless_steel_welds.
18. Rem, P., Di Maio, F., Hu, B., Houzeaux, G., Baltas, L., Țierean, M., Magnetic fluid equipment for sorting of secondary polyolefins from waste, *Environmental Engineering and Management Journal*, Volume: 12, Issue: 5, Pages: 951-958, ISSN: 1582-9596, WOS:000325283100014, IF=1.258 (corresponding author), http://www.eemj.icpm.tuiasi.ro/pdfs/vol12/no5/14_289_Rem_13.pdf.
19. Oláh, A., Țierean, M.H., Veró, 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, 2013, ISSN 1454-4164, p. 114-120, WOS:000316431300025, IF=0.563 (corresponding author), https://www.researchgate.net/publication/269688646_Influence_of_laser_heat_treatment_on_metal_coating_layers.
20. Roman, I.B., Țierean, M.H., Ocaña, J.L., Effects of laser shock processing on 316L stainless steel welds, *Journal of Optoelectronics and Advanced Materials*, Volume: 15, Issue: 1-2, 2013, Pages: 121-124, ISSN: 1454-4164, WOS:000316431300026, IF=0.563 (corresponding author), https://www.researchgate.net/publication/269688572_Effects_of_laser_shock_processing_on_316L_stainless_steel_welds.