

PERSONAL INFORMATION

Liana Sanda BALTEȘ

✉ baltes@unitbv.ro

POSITION
IOSUD UTBv

PhD Coordinator
Doctoral studies field: **Materials Engineering**
Since 2019

EXPERTISE FIELD AND
RESEARCH INTEREST AREAS

Materials engineering / Polymers / Composite materials / Materials characterization / Recycling

WORK EXPERIENCE

October 1990- present

Assoc.prof. (2003-present), lecturer (1996 – 2003), assistant (1990-1996)

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

▪ Teaching and research
[Education & research](#)

May 1990 – Sept 1990

Heat treatment engineer

Research Centre for bearings and fasteners, Brasov, Romania

Implementation of new materials / Metallographic analysis of materials for aviation bearings and nuclear power stations

[Research](#)

Sept 1987 - April 1990

Engineer

Aircraft Factory, Ghimbav, Romania, str. Hermann Oberth 34, www.iar.ro

Materials for aeronautical structures / Deformation and plate joining technologies for aeronautical structures

[Industry](#)

EDUCATION AND TRAINING

2017

Habilitation thesis in Materials Engineering

8 EQF

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

Obtaining, characterisation and applications of polymeric materials based on secondary raw materials

1992 – 1998

Ph. D. in Materials Science

8 EQF

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

Heat treatments, metallography, optimization

1982 - 1987

B.Sc.M.E

6 EQF

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

Manufacturing Engineering

PERSONAL SKILLS

Mother tongue

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 education and management experience
- team spirit

Organisational / managerial skills

- leadership
- research management, administrative and financial responsible, coordination for Sfera II, FP7 and Leonardo da Vinci projects

Job-related skills

- international cooperation, contact person within the department with the Francophone University Agency (AUF), Erasmus coordinator
- teamwork

Digital skills

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

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

Replace with name of ICT-certificates

- good command of office suite (word processor, spread sheet, presentation software)

Other skills

- ARACIS evaluator for C10 commission (2007 - present), reviewer for ISI and BDI journals in the field of Materials Engineering and Recycling, representative in the Editorial Board and the Scientific Bulletin of UTBv, member of the scientific and organizational committee of international conferences (AGG 2019, 2020, BioReMed 2019, BRAMAT)

ADDITIONAL INFORMATION

Publications

- books, teaching manuals, laboratory guidance: 9
- papers in journals rated Clarivate Analytics = 18
- papers in indexed publications Clarivate Analytics = 16
- papers in BDI journals = 13
- papers that do not fit into the first categories = 79

Presentations

- at international conferences = 15
- at Romanian conferences = 26

Projects

- international = 5
- Romanian = 19

Memberships

- The Romanian Association of Welding
- Romanian Foundry Association
- Romanian Biomaterials Society

Citations

- in journals Clarivate Analytics = 44
- in BDI = 12

H Indexes

- Clarivate Analytics (h-index=5), Scopus (h-index=4)

27.03.2020

Liana Sanda Balteș

ANNEXES

LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)

1. Baltes, 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>
2. Patachia S., Croitoru C., Baltes L., Tierean M., Colors distribution in polymer wastes and color prediction of recycled polymers, *Environmental Engineering and Management Journal*, Vol 18 Issue 5 WOS:000473511200009, Pag: 1039-1048, 2019, IF 1.186 in 2018 , <http://eemj.eu/index.php/EEMJ/article/view/3866>
3. Baltes L., Patachia S., Tierean M., Ekincioglu O., Ozkul H. M., Photoactive glazed polymer-cement composite, *Applied Surface Science*, 438(2018), p. 84-95, WOS:000425731200011, IF=5.155 in 2018 <https://www.sciencedirect.com/science/article/pii/S0169433217327174>
4. Baltes L., Patachia S., Tierean M., Ekincioglu O., Ozkul H.M., Photoactive polymer-cement composites for tannins removal from waste waters, *Journal of Environmental Chemical Engineering*, 2018, IF=0 in 2018, WOS:000444046700062, <https://doi.org/10.1016/j.jece.2018.06.039>, <https://www.sciencedirect.com/science/article/pii/S2213343718303488>
5. Tierean 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, corresponding author, WOS:000368046700038, IF 0.588 in 2018, https://www.researchgate.net/publication/292051314_Measurements_of_dynamic_Young_modulus_of_AISi10Mg_alloy_cast_in_vibrating_field
6. Croitoru C., Patachia S., Papancea A., Baltes L., Tierean M., Glass fibres reinforced polyester composites degradation monitoring by surface analysis, *Applied Surface Science*, 358 (2015), p. 518–524, WOS:000366220500003, IF=5.155 in 2018, <https://www.sciencedirect.com/science/article/pii/S0169433215014051>
7. Costiuc L., Tierean 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, WOS:000360500200007, IF 1.186 in 2018, http://www.eemj.icpm.tuiasi.ro/pdfs/vol14/no6/7_1025_Costiuc_14.pdf
8. Patachia F.S.C., Catana Damian L.N., Tierean M., Baltes L., Microbial Safety of Plastic Materials Obtained from Wastes, *Environmental Engineering and Management Journal*, 14(2015), 6, 2015, p. 1303-1312, WOS:000360500200008, IF 1.186 in 2018, http://www.eemj.icpm.tuiasi.ro/pdfs/vol14/no6/8_1027_Patachia_14.pdf
9. Baltes, L.S., Tierean, 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, WOS:000323397900033, IF 0.588 in 2018, https://www.academia.edu/15535217/Investigation_on_the_friction_coefficient_of_the_composite_materials_obtained_from_plastics_wastes_and_cellulosic_fibers
10. Ursutiu D., Samoila C., Baltes L.S., Tierean 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, WOS:000323397900027, IF 0.588 in 2018, http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F4b5REFB4jV7ucDBNED&page=1&doc=1
11. Rem P., Di Maio F., Hu B., Houzeaux G., Baltes L., Tierean M., Magnetic fluid equipment for sorting of secondary polyolefins from waste, *Environmental Engineering and Management Journal*, 12 (2013), 5, p. 951-958, WOS:000325283100014, IF=1.258 in 2013, http://www.eemj.icpm.tuiasi.ro/pdfs/vol12/no5/14_289_Rem_13.pdf
12. Martel Fuentes O., Mirza Rosca J. Rodriguez Galindo E. Baltes L.S., Tierean 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, WOS:000315835600004, IF=0.134 in 2012, http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=4&SID=F4b5REFB4jV7ucDBNED&page=1&doc=1
13. Tierean 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,

- WOS:000315611900030, IF=0.134 în 2012,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=7&SID=F4b5REFB4jV7ucDBNED&page=1&doc=1
14. Machedon Pisu T., Tiorean M., Baltes 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, WOS:000275625500008, IF=0.154 în 2010,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=10&SID=F4b5REFB4jV7ucDBNED&page=1&doc=1
 15. Baltes L., Draghici C., Manea C., Ceausescu D., Tiorean M., Trends in Selective Collection of the Household Waste, *Environmental Engineering and Management Journal*, July/August 2009, Vol.8, No. 4, p. 985-991, WOS:000269811500061, IF=0.885 în 2009; IF 1.186 în 2018, <http://eemj.eu/index.php/EEMJ/article/view/2626>
 16. Tiorean M., Baltes 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, WOS:000265001400038, IF=0.173 în 2009,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=14&SID=F4b5REFB4jV7ucDBNED&page=1&doc=1
 17. Balteș, L.S., Study concerning part and injection molding die design, *Metalurgia International*, vol. 16 (2011), issue 5, ISSN 1582-2214, pag. 166-170, WOS:000289606200038 IF= 0.084 in 2011,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=18&SID=F4b5REFB4jV7ucDBNED&page=1&doc=1
 18. Balteș, L.S., Aspects regarding the design of aluminum casting tools, *Metalurgia International*, vol. 16 (2011), issue 3, ISSN 1582-2214, pag. 63-67, WOS:000287889300015 IF= 0.084 în 2011,
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=21&SID=F4b5REFB4jV7ucDBNED&page=1&doc=1
 19. Mirza Rosca, J., Baltes, L.S., Tiorean, 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), p. 11-16, Trans Tech Publications, Switzerland, DOI:10.4028/www.scientific.net/SSP.216.11, WOS:000347924100002, <https://www.scientific.net/SSP.216.11>
 20. Roman, I.B., Tiorean, M.H., Baltes, 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, WOS:000347924100036, <https://www.scientific.net/SSP.216.210>