

PERSONAL INFORMATION MACHEDON PISU TEODOR



JOB POSITION

**Professor dr. eng.**  
**Dean of Materials Science and Engineering Faculty .**  
**tmache@unitbv.ro**

WORK EXPERIENCE

- 1998– present**                      **Professor dr. eng**  
 Research and education  
 UNIVERSITATEA TRANSILVANIA din Braşov  
 Materials Science and Engineering Faculty  
 Materials Engineering and Welding Department
- 1995– 1998**                        **Asist. prof. dr. eng**  
 Research and education  
 UNIVERSITATEA TRANSILVANIA din Braşov  
 Materials Science and Engineering Faculty  
 Materials Engineering and Welding Department
- 1992– 1995**                        **Lecturer dr. eng**  
 Research and education  
 UNIVERSITATEA TRANSILVANIA din Braşov  
**Materials Science and Engineering Faculty**  
**Materials Engineering and Welding Department**
- 1988 – 1992**                        **Asistant eng.**  
 Research and education  
 UNIVERSITATEA TRANSILVANIA din Braşov  
 Materials Science and Engineering Faculty  
 Materials Engineering and Welding Department
- 1980 – 1988**                        **Engineer, chief workshop IPMPB Pitesti**  
 Manufacturing engineering  
 IPMPB Pitesti
- 2000 – 2012**                        **Head of Department IMS, Transilvania University of Brasov**
- 2012 – present**                    **Dean of Materials Science and Engineering Faculty .**
- 2009 – 2024**                        **Materials engineering PhD supervisor**

## EDUCATION AND TRAINING

1991 – 1994	 <b>PhD</b> Materials science and engineering field Universitatea TRANSILVANIA din Braşov
1975 – 1980	<b>Engineer - University study</b> Welding equipment and technologies Universitatea TRANSILVANIA din Braşov
2012	Formator ANC – S.C. IRCETT S.A. Cluj Seria D nr. 0323

## Experiență în domeniul I/IFR

**Communicative, team spirit - gained membership in the Leonardo da Vinci program and project coordinator of numerous training and scientific research**

**Good knowledge of quality control processes and management (now the dean and coordinator of the master program  
Romania Welding Association; Association for unconventional technologies  
UTS specialization coordinator, ISI and ISMA, CNCSIS, CEEX, RAQAHE etc.  
Official doctoral theses.  
Organiser international conf BRAMAT 2005 BRAMAT 2007 WELDING 2006 BRAMAT 2009 BRAMAT 2011. BRAMAT 2013  
NURC 2008 winning article ISI  
The publication of 14 books and 32 articles in ISI**

## Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	3	3	3	3	3

**WoS ID**            **DGG-0136-2022**  
**Scopus ID**       **26421251300**  
**Hirsch index; 4**

**LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)**  
**Publications indexed Web of Science or ERIH**

PhD supervisor MACHEDON PISU Teodor

1. Croitoru, C., Roata, I.C., **Machedon-Pisu, T.**, Olah, A. Austenitic Stainless Steel as a Catalyst Material for Photo-Fenton Degradation of Organic Dyes. *Applied Sciences (Switzerland)*, **2022**, 12(3), 1008. <https://doi.org/10.3390/app12031008> FI: 2,679; SRI: 0.923 WOS:000759842400001
2. Uncu, I., Roata, I.C., Croitoru, C., **Machedon-Pisu, T.** Visible domain photocatalysis performance of Ti-Si thermal-sprayed coatings. *Sustainability (Switzerland)*, **2022**, 14(1), 85. <https://doi.org/10.3390/su14010085> FI: 3,251; SRI: 0.738 WOS:000752660700001
3. Mihai Alexandru Luca · Mircea Horia Tierean · **Teodor Machedon Pisu** · Jose Rodriguez · **Catalin Croitoru** The influence of concentrated solar energy flux on the structure and properties of stainless. *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY* , **2020** WOS:000500853500007, ISSN: 1388-6150
4. Catalina-Andreea Dascălu, Andreea Maidaniuc, Andreea Madalina Pandelescu, Stefan Ioan Voicu, **Teodor Machedon-Pisu**, George E. Stan, Anisoara Cimpean, Valentina Mitran, Iulian Vasile Antoniac, Florin Miculescu  
Synthesis and characterization of biocompatible polymer-ceramic film structures as favorable interface in guided bone regeneration - *Applied Surface Science - 0169-4332 Applied Surface Science 494 (2019) 335–352 FI 5, 155* <https://doi.org/10.1016/j.apsusc.2019.07.098> WOS:000487838900040
5. Aura-Cătălina Mocanu, Marian Miculescu, **Teodor Machedon-Pisu**, Andreea Maidaniuc, Robert Cătălin Ciocoiu, Mariana Ioniță, Iuliana Pasuk, George E. Stan,, Florin Miculescu  
Internal and external surface features of newly developed porous ceramics with random interconnected 3D channels by a fibrous sacrificial porogen method - *Applied Surface Science - 0169-4332 Applied Surface Science 489 (2019) 226–238 FI 5, 155* <https://doi.org/10.1016/j.apsusc.2019.05.354> WOS:000474530600024
6. Andreea Maidaniuc, Florin Miculescu,\*, Stefan Ioan Voicu, Corina Andronescu, Marian Miculescu, Ecaterina Matei, Aura Catalina Mocanu, Ion Pencea, Ioana Csaki, **Teodor Machedon-Pisu**, Lucian Toma Ciocan. Induced wettability and surface-volume correlation of composition for bovine bone derived hydroxyapatite particles - *Applied Surface Science - 0169-4332 - FI 4,439, SRI 1,47 2438 (2018) 158–166 11 July 2017 WOS:000425731200017 ( Articol ISI 2018 Machedon 1 pdf)*
7. Florin Miculescu, Aura Cătălina Mocanu, George E. Stan, Marian Miculescu,\*, Andreea Maidaniuc, Anisoara Cîmpean, Valentina Mitran, Stefan Ioan Voicu, **Teodor Machedon-Pisu**, Lucian Toma Ciocan. Influence of the modulated two-step synthesis of biogenic hydroxyapatite on biomimetic products' surface - *Applied Surface Science - 0169-4332 - FI 4,439, SRI 1,47, 438 (2018) 147–157 11 July 2017 WOS:000425731200016 ( Articol ISI 2018 Machedon 2 pdf)*
8. Miculescu, F. Jepu, G.E. Stan, M. Miculescu, S.I. Voicu, C. Cotrut, **T. Machedon Pisu**, S. Ciuca *Tailoring the electric and magnetic properties of submicron-sized metallic multilayered systems by TVA atomic*

*inter-diffusion engineered processes - Applied Surface Science - 0169-4332 - FI 2,711, SRI 1,442 vol 358 partB, pp 619-626 – 15.012 2015. ( Articol ISI 2015 Machedon 12 pdf)*

9. Luca M. A.; **Machedon Pisu T**, Vibration influence on polycrystalline structure and internal friction of the material deposited by welding, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume:. 15, No. 7- 8, July – August 2013, p. 655 – 661,(10Luca)
  
10. LucaM. A.; **Machedon Pisu T**, Studies concerning the modification of longitudinal elastic modulus and logarithmic decrement while heat treating C45 steel, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 13 Issue: 1-2 Pages: 106-110 Published: JAN 2011 (21Luca)
  
11. Brevet RO126926-A0 CBI A/00684/18.07.2011 „Instalatie și procedeu de sudare circulară în câmp de oscilatii mecanice” Inventatori: LUCA Mihai Alexandru, MACHEDON PISU Teodor. BOPI 12/2011 ( Brevet nr. 126926)
  
12. Brevet RO126945-A0 CBI A/00577/20.06.2011”Instalatie pentru tratamente termice în mediu lichid” Inventatori: LUCA Mihai Alexandru; MACHEDON PISU Teodor. BOPI 12/30.12.2011( Brevet nr. 126945)
  
13. Brevet RO126943-A0 CBI A/00690/18.07.2011 „Procedeu și instalatie de călire” Inventatori: LUCA Mihai Alexandru, MACHEDON PISU Teodor. BOPI 12/2011 ( Brevet nr. 126943)
  
14. Brevet 127814 valabil din 21.05.2012 ; Procedeu si instalatie de detensionare, revenire, curatare, debavurare si finisare Inventatori: LUCA Mihai Alexandru, MACHEDON PISU Teodor