



## Curriculum vitae Europass



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### Experiența profesională

Perioada 1972 – prezent  
Funcția sau postul ocupat asistent, șef lucrări, conferențiar, profesor  
Activități și responsabilități principale Activități didactice, de cercetare, în prezent șeful catedrei Ingineria și Managementul Elaborării Materialelor Metalice, Ingineria Valorificării Deeurilor, Expert pe termen lung/Conducător de doctorat în domeniul Ingineria Materialelor  
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Autoevaluare  
Nivel european (\*)

**En**

**Fr**

Competențe și aptitudini organizatorice

Director Departament  
Manager de proiecte de cercetare

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
B2	Mediu	B2	Mediu	B2	Mediu	B2	Mediu	B2	Mediu
B2	Mediu	B2	Mediu	B2	Mediu	B2	Mediu	B2	Mediu

## Informații suplimentare

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Member CERTIP Organism Național de Certificare a Personalului din Învățământul Superior  
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Membru CNATDCU Consiliului National de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare  
Membru al Academiei Maghiare de Științe (MTA)  
Referent științific Hydrometallurgy – Elsevier, ISI FI = 2.224  
Referent științific Engineering Science and Technology, an International Journal – Elsevier, ISI FI = 1.106  
Referent științific Waste Management – Elsevier, ISI FI = 3.157  
Referent științific Trans Tech Publications – Advanced Materials Research  
Referent științific U.P.B. Sci. Bull., Series B

## Lucrări publicate

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- Buzatu, M., Zsigmond, M.: “Special materials and superalloys”, Editura Printech, Bucharest, 2003, 196p. ISBN 973-652-790-5
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- Buzatu, M., Zsigmond, M: “ Special materials and superalloys”, Second Edition, Printech, 2004, 215 pag., ISBN 973-652-790-5.
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2-Study on the influence of various factors in the hydrometallurgical processing of waste printed circuit boards for copper and gold recovery Birloaga, I., De Michelis, I., Ferella, F., Buzatu, M., Veglio, F. Waste Management, volume 33, issue 4, year 2013, pp. 935 - 941---**Agustín Tashdjian, María Guadalupe Sánchez Loredo, Graciela Alicia González: Preparation of Silver Nanoparticles-Based Sensors for the Electrochemical Detection of Thiourea in Leaching Solutions of Waste Electrical and Electronic Equipment, Electroanalysis, Volume 25, Issue 9, pages 2124–2129, September 2013 (IF=2.502)**

3- Moldovan, Petru; Butu, Mihai; Popescu, Gabriela, Buzatu Mihai:Thermodynamics of Interactions in Al-K<sub>2</sub>TiF<sub>6</sub>-KBF<sub>4</sub> System, REVISTA DE CHIMIE Volume: 61 Issue: 9 Pages: 828-832 Published: SEP 2010---**Marc Estruga , Lianyi Chen, Hongseok Choi , Xiaochun Li, and Song Jin:Ultrasonic-Assisted Synthesis of Surface-Clean TiB<sub>2</sub> Nanoparticles and Their Improved Dispersion and Capture in Al-Matrix Nanocomposites, ACS Appl. Mater. Interfaces, 2013, 5 (17), pp 8813–8819, DOI: 10.1021/am402719p, IF=5.9**

4 - GV Ghica, M Buzatu: Tensile strength of Cu-Cr alloy at elevated temperature, UPB Scientific Bulletin Series B, Vol. 70, No. 1, 2008-- ---**Mária Orolínová, Juraj Ďurišin, Katarína Ďurišinová, Zuzana Danková, Marti Ďurišin: Effect of Microstructure on Properties of Cu-Al<sub>2</sub>O<sub>3</sub> Nanocomposite, Chemical and Materials Engineering 1(2): 60-67, 2013 DOI:**

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5- Study on the influence of various factors in the hydrometallurgical processing of waste printed circuit boards for copper and gold recovery Birloaga, I., De Michelis, I., Ferella, F., Buzatu, M., Veglio, F. Waste Management, volume 33, issue 4, year 2013, pp. 935 - 941---**Behnamfard, A. , Salarirad, M.M., Veglio, F.:Process development for recovery of copper and precious metals from waste printed circuit boards with emphasize on palladium and gold leaching and precipitation, Waste Management, Volume 33, Issue 11, November 2013, Pages 2354-2363, IF=3.157**

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-- **Szabolcs Fogarasia, Florica Imre-Lucaci, Árpád Imre-Lucaci, Petru Ilea: Copper recovery and gold enrichment from waste printed circuit boards by mediated electrochemical oxidation, Journal of Hazardous Materials, <http://dx.doi.org/10.1016/j.jhazmat.2014.03.043>, IF=4.331**

8- Genica BĂDĂNOIU, BUZATU: STRUCTURAL AND PHYSICO-CHEMICAL ANALYSIS OF WASTE FROM USED LEAD – ACID BATTERIES, U.P.B. Sci. Bull., Series B, Vol. 74, Iss. 1, 2012citat in**Handbook of Recycling, Chapter 8, Lead Recycling,2014, 95-111,Bart Blanpain, Sander Arnout, Mathias Chintinne,Douglas R. Swinbourne, <http://dx.doi.org/10.1016/B978-0-12-396459-5.00008-8>**

9-Thermodynamics of interactions in Al-K<sub>2</sub>TiF<sub>6</sub>-KBF<sub>4</sub> system Moldovan, P., Butu, M., Popescu, G., Buzatu, M., Usurelu, E., Soare, V., Mitrica, D.,2010,Revista de Chimie 61 (9) , pp. 828-832 citat in **Thermodynamics and mechanism of metalothermic reduction of molten salts Dragut, D.V., Moldovan, P., Butu, M., 2012, Revista de Chimie 63 (9) , pp. 925-928, IF0.677**

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- 12 - Buzatu , Gabriela Popescu, Ionela Birloaga , Simona Saceanu: Study concerning the recovery of zinc and manganese from spent batteries by hydrometallurgical processes, Waste Management 33 (2013) 699–705-----**Carolina Leao Quintanilha, s.a.: Recovery of manganese and zinc via sequential precipitation from spent zinc-MnO<sub>2</sub> dry cells after fusion with potassium hydrogenosulphate, J. of Power Sources, 248,2014,596-603, IF=5.211**
- 13 - Buzatu , Gabriela Popescu, Ionela Birloaga , Simona Saceanu: Study concerning the recovery of zinc and manganese from spent batteries by hydrometallurgical processes, Waste Management 33 (2013) 699–705-----**Lorena Falco, s.a.:Solvent extraction studies for separation of Zn and Mn from spent batteries leach solutions, doi 10.1080/01496395.2013.850510, IF=1.2**
- 14 - Ghica, G.V., Buzatu, M.: Tensile strength of Cu-Cr alloys at elevated temperature, Sci.Bull, UPB, B,70,1,2008,55-58-----**Maria Orolinova, s.a.: Effet of microstructure on properties of Cu-Al<sub>2</sub>O<sub>3</sub> nanocomposite, doi 10.13189/cme.2013.010205**
- 15 - Genica BĂDĂNOIU, BUZATU: STRUCTURAL AND PHYSICO-CHEMICAL ANALYSIS OF WASTE FROM USED LEAD –ACID BATTERIES, U.P.B. Sci. Bull., Series B, Vol. 74, Iss. 1, 2012-----**Wang, Z., s.a.: Pecipitation and characterization of lead citrate in spent batteries, doi 10.3969/j.issn.1007-7545.2012.11.017 IF=1.221**
- 16 - Ghica, G.V., Buzatu, M.: Tensile strength of Cu-Cr alloys at elevated temperature, Sci.Bull, UPB, B,70,1,2008,55-58-----**Zhe Zang, s.a.: Effect of ultasonic vibration on dealloying corrosion of CuCrAl alloy in H<sub>2</sub>SO<sub>4</sub> solutions, Journal of Material Science and Engineering A, 1, 2011, 253-257, IF=2.108**
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- 18- M. Buzatu, S. Săceanu, V. Ghica, G. Iacob, T. Buzatu: Simultaneous recovery of Zn and MnO<sub>2</sub> from used batteries, as raw materials, by electrolysis, Waste Manage. (Oxford), 33 (2013), pp. 1764–1769-----**Ya Ma, Yan Cui, Xiaoxi Zuo, Shanna Huang, Keshui Hu, Xin Xiao, Junmin Nan: Reclaiming the spent alkaline zinc manganese dioxide batteries collected from the manufacturers to prepare valuable electrolytic zinc and LiNi<sub>0.5</sub>Mn<sub>1.5</sub>O<sub>4</sub> materials, Waste Management, DOI: 10.1016/j.wasman.2014.05.009, IF=3.157**
- 19- Buzatu, Gabriela Popescu, Ionela Birloaga , Simona Saceanu: Study concerning the recovery of zinc and manganese from spent batteries by hydrometallurgical processes, Waste Management 33 (2013) 699–705.....**Renan Azevedo da Rocha, s.a.: Production of potassium manganite and barium manganite from Zn/MnO<sub>2</sub> dry cells via fusion with potassium hydroxide, Journal of Power Sources, 268, 2014, 831-840, IF=5.211**
- 20 - Buzatu, Moldovan: Aliaje reactive si usoare – Partea I: Aliaje pe baza de titan, UPB, 1994.....**Marian, C., s.a.: Valorization of titanium metal wastes as taning agent used in leather industry, Waste Management, 2014, doi: 10.1016/j.wasman.2013.12.015, IF=3.157**
- 21-IENCIU, M., PANAIT, N., MOLDOVAN, P., BUZATU, M., *Elaborarea și turnarea aliajelor neferoase speciale*, Editura didacticăși pedagogică, București, 1985...citāt in **Cristea,L.: IRON INFLUENCE CONCERNING THE MECHANICAL PROPERTIESOF THE DEFORMABLE ALUMINIUM ALLOYS, 23<sup>rd</sup> International Conference on Metallurgy and Materials METAL 2014May 21<sup>st</sup> - 23<sup>rd</sup> 2014, Proceedings of METAL is published in Thomson Reuters database - Web of Knowledge/Web of Science incl. CPCI**
- 22-IENCIU, M., MOLDOVAN, P., PANAIT, N., GROZA, I., BUZATU, M., MARINESCU, DANIELA, *Elaborarea și turnarea aliajelor neferoase*, Editura didacticăși pedagogică,București, 1981....citāt in **Cristea,L.:IRON INFLUENCE CONCERNING THE MECHANICAL PROPERTIES OF THE DEFORMABLE ALUMINIUM ALLOYS, 23<sup>rd</sup> International Conference on Metallurgy and Materials METAL 2014May 21<sup>st</sup> - 23<sup>rd</sup> 2014, Proceedings of METAL is published in Thomson Reuters database - Web of Knowledge/Web of Science incl. CPCI**
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**Recenzii:**

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