

Universitatea Transilvania din Braşov

Facultatea Design de Produs şi Mediu

Departamentul Design de Produs, Mecatronică şi Mediu

Poz. postului 32

Disciplinele postului: Tehnologia hidrogenului; Sisteme fotovoltaice / Solar PV Systems; Sisteme fotovoltaice; Chimie

**FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR UNIVERSITĂŢII**  
**Conferenţiar , poziţia 32**

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Candidat: Eneşca Ioan Alexandru

Data naşterii 18/08/1981

Funcţia actuală Şef Lucrări

Instituţia Universitatea Transilvania din Braşov

1. Studii universitare (licenţă şi masterat)

Nr. crt.	Instituţia de învăţământ superior şi facultatea	Domeniul	Perioada	Titlul acordat
1	Universitatea de Vest din Timişoara	Fizică - Chimie	1999 - 2003	Licenţiat în Fizică - Chimie
2	Universitatea Transilvania din Braşov	Inginerie Mecanica	2003-2005	Masterat în Ingineria proiectării şi managementul sistemelor bazate pe energie regenerabilă (lb. Engleză)

2. Studii de doctorat

Nr. crt.	Instituţia organizatoare de doctorat	Domeniul	Perioada	Titlul ştiinţific acordat
1	Universitatea Transilvania din Braşov	Ştiinţa şi ingineria materialelor	2003-2007	Doctor

3. Studii şi burse postdoctorale (stagii de cel puţin 6 luni)

Nr. crt.	Instituţia	Domeniul/ Specializarea	Perioada	Tipul de bursă
1	Universitatea Transilvania din Braşov	Ştiinţa şi ingineria materialelor	2010-2013	Postdoctorat / POSDRU

4. Realizările profesional-ştiinţifice

Calitatea activităţilor didactice/ profesionale	Din Fişa de evaluare şi din Propunerea de dezvoltare a carierei universitare
Lucrări publicate în reviste de specialitate recunoscute naţional internaţional	1. L. Isac, L. Andronic, <b>A. Enesca</b> , A. Duta, Copper sulfide films obtained by spray pyrolysis for dyes photodegradation under visible light irradiation, Journal of Photochemistry and Photobiology A, vol.

- 252, p. 53– 59, 2013, FI = 2.421
2. **A. Enesca**, A. Duta, The influence of selective doping ions (Na<sup>+</sup>, Ta<sup>5+</sup>) on the optoelectronic properties of WO<sub>3</sub> thin films, *Applied Physics A*, DOI 10.1007/s00339-012-7283-x, 2012, FI = 1.63
3. L. Bertus, **A. Enesca**, A. Duta, Influence of spray pyrolysis deposition parameters on the optoelectronic properties of WO<sub>3</sub> thin films, *Thin Solid Films*, vol. 520, p. 4282-4290, 2012, , FI = 1.89.
4. **A. Enesca**, L. Andronic, A. Duta, Optimization of Opto-Electrical and Photocatalytic Properties of SnO<sub>2</sub> Thin Films Using Zn<sup>2+</sup> and W<sup>6+</sup> Dopant Ions, *Catalysis Letters*, Vol. 142, p. 224-230, 2012, FI = 2.242.
5. **A. Enesca**, L. Andronic, A. Duta, The influence of surfactants on the crystalline structure, electrical and photocatalytic properties of hybrid multi-structured (SnO<sub>2</sub>, TiO<sub>2</sub> and WO<sub>3</sub>) thin films, *Applied Surface Science*, Vol. 258, p. 4339-4346, 2012, FI = 2.103.
6. **A. Enesca**, Influnece of precursor composition on optoelectric and photocatalytic properties of TiO<sub>2</sub> and WO<sub>3</sub> film, *Enviromental Engineering and Management Journal*, Vol. 10(8), p. 1191-1196, 2011, FI = 1.004.
7. L. Isac, I. Popovici, **A. Enesca**, A. Duta, Copper sulfides thin films with controlled properties for photovoltaic cells, *Enviromental Engineering and Management Journal*, Vol. 10(9), p. 1235-1241, 2011, FI = 1.004.
8. L. Andronic, D. Andrasi, **A. Enesca**, M. Visa, A. Duta, The influence of titanium dioxide phase composition on dyes photocatalysis, *Journal of sol-gel science and technology*, Vol. 58 (1), p. 201-208, 2011, FI = 1.632.
9. **A. Enesca**, A. Duta, The influence of organic additives on the morphologic and crystalline properties of SnO<sub>2</sub> obtained by spray pyrolysis deposition, *Thin Solid Films*, Vol. 519 (17), p. 5780-5786, 2011, , FI=1.89.
10. M. Dudita, C. Bogatu, **A. Enesca**, A. Duta, The influence of the additives



composition and concentration on the properties of SnO<sub>x</sub> thin films used in photocatalysis, *Materials Letters*, Vol. 65 (14), p. 2185-2189, 2011, FI = 2.307.

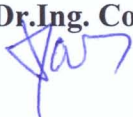
11. **A. Enesca**, C. Bogatu, M. Voinea, A. Duta, Opto-electronic properties of SnO<sub>2</sub> layers obtained by SPD and ECD techniques, *Thin Solid Films*, Vol. 519 (2), p. 563-567, 2010, FI = 1.89.
12. **A. Enesca**, A. Duță, The influence of the precursor concentration on the properties of SnO<sub>2</sub> thin films, *Thin Solid Films*, Volume 519 (2), p. 568-572, 2010, FI = 1.89.
13. **A. Enesca**, L. Andronic, A. Duta, Influence of sodium ions (Na<sup>+</sup>) dopant on the efficiency of the tungsten, *Revue Roumain de Chimie*, Vol. 55 (1), p. 11-15, 2010, FI = 0.418.
14. **A. Enesca**, L. Andronic, A. Duta, "Wastewater Treatment Using Optimized TiO<sub>2</sub> Photocatalytic Properties", *Environmental Engineering and Management Journal*, Vol.8, No.4, p. 753-758, 2009, FI = 1.004.
15. L. Andronic, **A. Enesca**, C. Vladuta, A. Duta, „Photocatalytic activity of cadmium doped TiO<sub>2</sub> films for photocatalytic degradation of dyes", *Chemical Engineering Journal*, 152, p. 64-71, 2009, FI = 3.461.
16. L. Andronic, B. Hristache, **A. Enesca**, M. Visa, A. Duta, „Studies on titanium oxide catalyst doped with heavy metals (cadmium, copper and nickel)", *Environmental Engineering and Management Journal*, Vol. 8(4), p. 747-751, 2009, FI = 1.004.
17. **A. Enesca**, A. Duta, J. Schoonman, "Influence of tantalum ions (Ta<sup>5+</sup>) dopants on the efficiency of the tungsten trioxide photoelectrode", *Physica Status Solidi a*, 205, 8, p. 2038-2041, 2008, FI = 0.563.
18. M. Mihaly, I. Lacatusu, **A. Enesca**, A. Meghea, "Hydride nanomaterials based on silica coated C<sub>60</sub> clusters obtained by microemulsion technique", *Molecular Crystals and Liquid Crystals*, 483, p. 205-215, 2008, FI = 0.314.
19. I. Lacatusu, M. Mihaly, **A. Enesca**, A.

	<p>Meghea, "Fe<sub>2</sub>O<sub>3</sub> nanoparticles coated in a SiO<sub>2</sub> shell by microemulsion method, Molecular Crystals and Liquid Crystals, 483, p. 228-236, 2008, FI = 0.314.</p> <p>20. <b>A. Enesca</b>, A. Duta, S. Manolache, „The influence of defects on the conduction in photoelectrodes used for water splitting”, Journal of Optoelectronics and Advanced Materials, 9, 6, 2007, FI = 0.457.</p> <p>21. S.A. Manolache, A. Duta, <b>A. Enesca</b>, "The Influence of Deposition Condition on Crystal Growth of CuSbS<sub>2</sub> Thin Film Absorber Used For Solid State Solar Cells (SSSC)", Journal of Optoelectronics and Advanced Materials, 9, 5, p. 1269-1272, 2007, FI = 0.457.</p> <p>22. <b>A. Enesca</b>, A. Duta, J. Schoonman, "Study of photoactivity of tungsten trioxide (WO<sub>3</sub>) for water splitting", Thin Solid Films, 515, p. 6371–6374, 2007, FI = 1.89.</p> <p>23. <b>A. Enesca</b>, C. Enache, A. Duta, J. Schoonman, "High crystalline tungsten trioxide thin layer obtained by SPD technique", Journal of the European Ceramic Society, 26, p: 571-576, 2006, FI = 2.353</p>
<p>Lucrări prezentate la conferințe naționale/ internaționale în profilul postului</p>	<p>1. <b>A. Enesca</b>, M. Comsit, I. Visa, A. Duta, Photovoltaic Efficiency of a Grid Connected 10 kWp System Implemented in the Brasov Area, Book Series: Proceedings of the International Conference on Optimization of Electrical and Electronic Equipment, Braşov, Romania, 2010</p> <p>2. <b>A. Enesca</b>, L. Isac, A. Duță, The influence of SnO<sub>2</sub> crystallinity and morphology on the TiO<sub>2</sub> and WO<sub>3</sub> photoelectric properties, 25th European Photovoltaic Solar International Conference, Valencia, Spain, 2010</p> <p>3. <b>A. Enesca</b>, A. Duță, M. Dudiță, M. Vișa, L. Andronic, D. Perniu, Matériaux a proprietes controlees pour la conversion de l energie solaire, Conferinta Internațională COFrRoCA, Orleans, Franta, 2010</p> <p>4. <b>A. Enesca</b>, A. Duta, L. Isac, S. Manolache, J. Schoonman, The influence of the annealing process on the properties of WO(3) photoelectrode used in a photoeletrochemical cell (PECC),</p>



	<p>International Conference on Nanoscience and Technology, Basel, Elvetia, 2006</p> <p>5. <b>A. Enesca</b>, L. Andronic, S. Manolache, A. Duta, „ Investigation of WO<sub>3</sub> and TiO<sub>2</sub> thin films used in photocatalysis”, International Semiconductor Conference, Sinaia, Romania, 2006</p> <p>6. <b>A. Enesca</b>, Duta A., Manolache S., „Chemical stability of tungsten trioxide (WO<sub>3</sub>) used in hydrogen production via water splitting” 21th European Photovoltaic Solar Energy Conference and Exhibition, Dresden, Germany, 2006</p> <p>7. <b>A. Enesca</b>, A. Duta, M. Nanu, C. Enache, R. van der Krol, J. Schoonman, “Photoelectrode materials of tungsten oxide (WO<sub>3</sub>) for water splitting”, International Semiconductor Conference, Sinaia, Romania, 2005</p> <p>8. <b>A. Enesca</b>, S.A. Manolache, A. Duta, M. Nanu, C. Enache, R. van der Kroel, J. Schoonman “Novel Approach of TiO<sub>2</sub>/WO<sub>3</sub> for Water Splitting”, 20th European Photovoltaic Solar Energy Conference and Exhibition, Barcelona, Spania, 2005</p>
Volum(e) de specialitate publicat(e) în edituri recunoscute național	<p>[1] Monografie: ***, Basics of Renewable Energy Systems, Ed. Universitatii Transilvania, Editori: Ion Visa, Anca Duta, ISBN 9736355411, Responsabil de Capitolul Hydrogen tehnology, 2005.</p> <p>Responsabil de Capitolul Solar Energy Conversion, 2005.</p> <p>[2] Monografie: ***, Renewable Energy Systems - Applications, Ed. Universitatii Transilvania, Editori: Ion Visa, Anca Duta, ISBN 9736356574, Responsabil de Capitolul Solar to Electrical Energy conversion, 2006.</p> <p>[3] Monografie: ***, Sustainable Energy, Ed. Universitatii Transilvania, Editori: Ion Visa, Anca Duta, ISBN 978-973-598-454-0, Responsabil de [4] Capitolul Hydrogen tehnology, 2008.</p> <p>Chemistry, Editura Universității Transilvania din Brașov, ISBN: 978-973-598-630-8, 2009.</p>

Director de departament,  
Prof.Dr.Ing. Codruța JALIU



Candidat,  
Ș.I. Dr. Alexandru ENESCA

