

LISTA DE LUCRĂRI

Conf.dr.ing. Ion-Dragoș UȚU

A. Teza de doctorat

1. **I.D. Uțu**, *Contribuții la îmbunătățirea comportamentului la oxidare a straturilor MCrAlY prin retopire cu fascicul de electroni*, Universitatea Politehnica Timisoara, 2006;

B. Brevete de invenție

1. V.A. Serban, C. Codrean, D. Buzdugan, **I.D. Utu**, *Technology for making sleeve-shaped magnetic shields of solid amorphous alloys*, RO126021-A0; RO126021-B1/2011;

C. Cărți publicate

1. **I.D. Uțu**, *Straturi de acoperire rezistente la cald*, Ed. Politehnica, Timisoara, 2008;
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3. C. Codrean, V.A. Serban, **I.D. Utu**, *Amorphous and nanocrystalline alloys*, VDM Verlag Dr. Mueller Aktiengesellschaft&Co. KG, 2009
4. I. Mitelea, **I.D. Utu**, *Selecția, utilizarea si reciclarea materialelor ingineresti*, Editura Politehnica, Timisoara, 2014
5. C. Codrean, I.D.Utu, D. Buzdugan, V.A.Serban, *Materiale metalice avansate – aplicații practice*, Editura Politehnica Timișoara, 2016
6. **I.D. Utu**, I. Mitelea, *Introducere în Ingineria Suprafețelor*, Editura Politehnica Timișoara, 2018.

D. Articole publicate în reviste și volume indexate ISI

1. **I.D. Utu**, I. Mitelea, I. Bordeasu, T. Bena, Investigations Concerning the Corrosion and Ultrasonic Cavitation Erosion of 316L Coatings Deposited HVOF on Nodular Cast Iron, *Revista de Chimie*, Vol. 70(5), 2019, pp. 1625-1631;
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12. T. Bena, I. Mitelea, I. Bordeasu, **I.D. Utu**, C.M Craciunescu, The quenching-tempering heat treatment and cavitation erosion resistance of nodular cast iron with ferrite-pearlite microstructure, *Metal 2017: 26th International Conference on Metallurgy and Materials*, 2017, pp. 731-736;
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26. I. Hulka, **I.D. Utu**, V.A Serban, P. Vuoristo, K. Niemi, Properties and microstructure of HVOF thermally sprayed carbide based coatings, *Advanced Materials and Structures V, Solid State Phenomena 216*, 2014, pp. 261-266;
27. **I.D. Utu**, V.A. Serban, Evaluation of the thermally sprayed cermet coatings adhesion by scratch test, *Key Engineering Materials*, Vol. 601, 2014, pp. 37-40;
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E. Articole publicate în reviste și volume indexate BDI

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5. C.P. Lucian, I. Mitelea, M. Burcă, **I.D. Utu**, Mechanical Behaviour of MAG Pulsed Welded Joints from 6082 T6 Aluminium Alloy, *IOP Conference Series: Materials Science and Engineering* Volume 416, Issue 1, 2018, pp. 1-6;
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 12. D. Buzdugan, C. Codrean, V.A. Serban, **I.D. Utu**, Obtaining ferromagnetic bulk nanocrystalline alloys with high mechanical strength, Annals of DAAAM for 2010 and 21st International DAAAM Symposium "Intelligent Manufacturing and Automation: Focus on Interdisciplinary Solutions", 2010, pp. 1455-1456;
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F. Granturi/proiecte câștigate prin competiție

1. Grant AT 46GR/11.05.2007, 98GR/11.06.2008, 2007-2008, Cercetari privind cresterea performantelor straturilor MCrAlY depuse prin metoda HVOF si modificate prin retopire cu laser – **director de proiect**
2. IDEI 11/30.08.2013, 2013-2016, Imbunatatirea rezistentei la uzare a titanului prin retopirea cu fascicul de electroni a straturilor depuse prin pulverizare termica – **director de proiect**
3. Program CEEEX, 266/2006, 2006-2008, Microstraturi plurifunctionalizate pentru acoperirea aliajelor de titan prin tehnologii avansate – membru
4. Parteneriate 71-050/2007, 2007-2010, Tehnologii inovative de obținere prin pulverizare termică a microstraturilor compozite de tip cermet anticoroziune și antiuzare – membru
5. IDEI 66/01.10.2007, 2007-2010, Aliaje feromagnetice amorfe și nanocristaline masive cu aplicabilitate pentru realizarea ecranelor magnetice- membru
6. Parteneriate 22-096/2008, 2008-2011, Sistem integrat pentru managementul riscurilor la echipamente și instalații din domeniul energetic- membru
7. Grant CNCSIS, 27668/2005, 2005-2007, Producerea și caracterizarea aliajelor nanostructurate feromagnetice din familia Fe-Cr-(Nb, Mo)-P-Si-B – membru
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