

2.6. Diseminarea pe scară largă a rezultatelor științifice. Participare la manifestări tehnico-științifice specifice domeniului proiectului

Diseminarea rezultatelor din a doua etapa a proiectului a fost realizată prin publicarea de 3 articole cotate ISI, 2 articole cotate BDI și participarea cu 7 lucrări la conferințe internaționale.

Articole:

1. V. Soare, D. Mitrica, I. Constantin, V. Badilita, F. Stoiciu, A. M. J. Popescu, I. Carcea, "Influence of the re-melting on the microstructure, hardness and corrosion behaviour of the AlCoCrFeNiTi high-entropy alloy", *Materials Science And Technology*, vol. 31, no. 10, 2015, 1194-1200, SRI: 1,783
2. V. Soare, D. Mitrica, I. Constantin, G. Popescu, I. Csaki, M. Tarcolea, and I. Carcea, „The Mechanical and Corrosion Behaviors of As-cast and Re-melted AlCrCuFeMnNi Multi-Component High-Entropy Alloy”, *Metallurgical and Materials Transactions A*, vol. 46A, 2015, 1468-1473. SRI : 4,103.
3. P. Moldovan, I. Csaki, G. Popescu, M. Lucaci, M. Lungu, M. Butu, Microstructure evolution and tribological properties for new A1Si9Cu3/5%Gr(Cu) composite, *Composites part B-Engineering*, Vol. 81, 2015, pages 141-148, Impact Factor: 2,983.
4. I. Florea, Gh. Buluc, R. Chelariu, E. R. Baci, I. Carcea, Microstructure and corrosion properties investigations of AlCrNiCuMn high-entropy alloy, *Advance Materials Research*, Vol. 1128, 2015, ISI Web of Science
5. G. Buluc, I. Florea, R. Chelariu, I. Carcea, FeNiCrMnAl- A new high entropy alloy. Mechanical properties, *Jurnalul Analele Universitatii "Dunarea de Jos" din Galati. Fascicula IX (cotat BDI)*, 2015.
6. M. A. Matara, I. Csaki, G. Popescu, C. A. Popescu, V. Soare, A. Soare, D. Mitrică, „AlCrCuFeNiMn high entropy alloy obtained by powder metallurgy route”, *U.P.B. Sci. Bull., Series B*, Vol. 77, Iss. 4, 2015, cotat BDI.

Conferințe:

1. G. Buluc, I. Florea, B. Istrate, V. Soare, I. Carcea , "*Microstructures and mechanical properties of FeNiCrMnAl high entropy alloys*", 9th International Conference on Materials Science and Engineering – BRAMAT 2015, Brasov – ROMANIA, 5 – 7 March 2015. Book of Abstracts – BRAMAT 2015 - 9th International Conference on Materials Science and Engineering .
2. I. Florea, G. Buluc , R. M. Florea , V. Soare , I. Carcea, „*Study on Corrosion Resistance of High- Entropy Alloy in Medium Acid Liquid and Chemical Properties*”, Conferinta MODTECH, publicata in IOP Publishing, 2015 .

3. Gh. Buluc, I. Florea , O. Baltatescu , R. M. Florea, I. Carcea, "*Investigation of FeNiCrWMn – a new high entropy alloy*", Conferinta MODTECH, 2015, in curs de publicare in IOP Publishing, 2015.
4. Gh. Buluc, I. Florea, A. Alexandru ,I. Carcea, "*The influence of aluminum in high entropy alloy FeNiCrCuAl*", Publicata in TEHNOMUS, 2015– New Technologies and Products in Machine Manufacturing Technologies
5. G. Popescu, V. Soare, D. Mitrica, I. Csaki, V. Badilita, M. Ghita, I. Carcea, "**Study of high entropy alloys synthesis by induction melting and mechanical alloying**", 9th International Conference on Materials Science and Engineering – BRAMAT 2015, 5 – 7 March 2015, Brasov, Romania
6. D. Mitrica, V. Soare, I. Constantin, G. Popescu, V. Badilita, F. Stoiciu, A M. J. Popescu, "*Improvement of the Mechanical and Corrosion Resistance Characteristics of AlCrFeMnNi High Entropy Alloy by the Annealing Process*", The 19th Romanian International Conference on Chemistry and Chemical Engineering – RICCCCE 19, 02-05 September 2015, Sibiu, Romania.