

Lista de lucrări în domeniul de studii universitare de licență*

Numele și prenumele:

RUSU OANA

A. Teza de doctorat.

„CERCETĂRI ASUPRA MATERIALELOR COMPOZITE SUPERUȘOARE CU MATRICE METALICĂ”

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

MATERIALE COMPOZITE SUPERUȘOARE CU MATRICE METALICĂ

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

[1] Florea R.M., **Bălțătescu O.**, Buzăianu A., Carcea I., *Investigation techniques of in-situ AlMg/AlN metal matrix composites via reactive gas injection*, Proceedings of the 15th International Conference, Modern Technologies, Quality and Innovation, ModTech Publishing House, I, 337-342, 2013

[2] **Bălțătescu O.**, Florea R.M., Roman C., Rusu I., Carcea I., *Stabilized Aluminum Foams, unique material for industrial applications*, Journal of optoelectronics and advanced materials", Vol. 15 (7–8), 823–832, 2013

[3] Bogus G.V., Constantinescu V., **Bălțătescu O.**, Alexandru A., Carcea I., *Composite materials reinforced with fibers used in strengthening heritage buildings*, Metalurgia International, XVIII (5), 49–54, 2013

[4] Muscalu I., **Bălțătescu O.**, Florea R.M., Soare V., Chelariu R., Carcea I., *High entropy alloys*, Journal of optoelectronics and advanced materials, 15 (7–8), 761–767, 2013

[5] Manoliu (Nuțescu) C., **Bălțătescu O.**, Carcea I., Cimpoeșu N., Axinte M., Adoroaei C., *Research on obtaining open-cell foam by molten metal infiltration*, Advanced Materials Research, 1036, 46–51, 2014

[6] **Bălțătescu O.**, Nuțescu C., Rusu I., Roman C., Carcea I., *Microstructure research of mettalic composite foams based on AlMg alloys*, Advanced Materials Research, 1036, 106–110, 2014

[7] Peter I., Florea R.M., **Bălțătescu O.**, Carcea I., *Growth of AlN by Reactive Gas Injection of Nitrogen in an AlMg Matrix*, Advanced Materials Research, 1036, 117–121, 2014

[8] **Bălțătescu O.**, Florea R.M., Buzăianu A., Roman C., Carcea I., *Reseachers Concerning Stabilized Aluminium Foams based on Silicon Carbide*, Advanced Materials Research, 837, 253– 258, 2014

[9] Florea R.M., **Bălțătescu O.**, Buzăianu A., Carcea I., *Investigation techniques of in-situ AlMg/AlN metal matrix composites via reactive gas injection*, Advanced Materials Research, 837, 283–289, 2014

[10] Buluc G., Florea I., **Bălțătescu O.**, Roman C., Carcea I., *Micristructure and Mechanical Properties of FeNiCrCuAl High Entropy Alloys*, Advanced Materials Research, 1036, 101–105, 2014

- [11] Florea I., Buluc G., Comănesci R., **Bălțătescu O.**, Cimpoieșu N., Carcea I., *Microstructure and Mechanical Tests of AlNiMnZnCu High Entropy Alloys*, Advanced Materials Research, 1036, 95–100, 2014
- [12] Florea I., Florea R.M., **Bălțătescu O.**, Soare V., Roman C., Carcea I., *Research on electromagnetic properties of high entropy alloys*, Advanced Materials Research, 837, 277–282, 2014
- [13] **Bălțătescu O.**, Axinte M., Barbu G., Manole V., *New approach for porous materials obtaining using centrifugal casting*, Modern Technologies in Industrial Engineering, IOP Conf. Series: Materials Science and Engineering 95, 012018 doi:10.1088/1757-899X/95/1/012018, ModTech 2015
- [14] **Bălțătescu O.**, Florea R. M., Rusu I., Carcea I., *Researches on the behaviour of cellular antiballistic composites based on AlMg-SiC alloys*, Modern Technologies in Industrial Engineering, IOP Conf. Series: Materials Science and Engineering 95, 012014 doi:10.1088/1757-899X/95/1/012014, ModTech 2015
- [15] **Bălțătescu O.**, Florea R.M., Carcea I., Rusu I., *Cellular AlMg-SiC composites structure modeling by means of fractal analysis*, Journal of Optoelectronics and Advanced Materials, 17 (11–12), 1862–1867, 2015
- [16] Buluc G., Florea I., **Bălțătescu O.**, Florea R.M. și Carcea I., *Investigation of FeNiCrWMn – a new high entropy alloy*, Modern Technologies in Industrial Engineering, IOP Conf. Series: Materials Science and Engineering 95, 012017 doi:10.1088/1757-899X/95/1/012017, ModTech 2015
- [17] **Rusu O.** and Rusu I., *Porous AlMg-SiC Composites Structure Modeling By Means of Fractal Analysis*, IOP Conf. Series: Materials Science and Engineering 209, 012006 doi:10.1088/1757-899X/209/1/012006, 2017
- [18] **Rusu O.** and Rusu I., *Research on using AlMg10-SiC cellular alloys for fluids filtering*, Key Engineering Materials, ISSN: 1662-9795, Vol. 750, pp 142-147, doi:10.4028/www.scientific.net/KEM.750.142, 2017
- [19] Ioan RUSU, Simona BĂCĂIȚĂ, Adrian ADĂSCĂLIȚEI, **Oana RUSU**, *Impact of 132731 Posdru Project on School Education Curricula that use ICT Technologies and e-learning: Experience of the Technical University "Gheorghe Asachi" of Iași*, 10.12753/2066-026X-17-223, 2017

G. Lucrări științifice publicate în reviste din străinătate.

- [1] **Bălțătescu O.**, Florea R.M., Carcea I., *Studies on Metal Matrix Composite Based on AlMg Alloys*, International Journal of Research in Engineering and Science, ISSN (Online) 2320-9364, 2013
- [2] Florea R. M., **Bălțătescu O.**, Muscalu I., Carcea I., *Microstructures and Mechanical Properties of composites based on AlMg alloys produced "in situ"*, International Journal of Research in Engineering and Science, ISSN (Online) 2320-9364, 1 (5), 79–84, 2013

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

- [1] **Bălțătescu O.**, Carcea I., Florea R.M., *Magnesium alloys as biodegradable implants*, Buletinul Institutului Politehnic din Iași, Tomul LVIII (LXII), Fasc. 1, Secția Știința și Ingineria Materialelor, ISSN 1453–1690, 2012
- [2] Carcea I., **Bălțătescu O.**, Florea R.M., *Aspects regarding the tradition of bells manufacture and use*, The Annals of "Dunarea de Jos" University of Galati, fascicle IX Metallurgy and materials science, Special Issue, 74–81, ISSN 1453-083X, 2012
- [3] Florea R.M., **Bălțătescu O.**, Mitrică D., Buzăianu A., Carcea I., *Processing of in-situ AlMg/AlN metal matrix composites via RGI*, International Journal of Modern Manufacturing Technologies, Editura Politehnicum Publishing House, V (1), 73–78, 2013

- [4] Florea R.M., **Bălțătescu O.**, Florea I., Peter I., Carcea I., *“In situ” synthesis of AlN in Al–Mg alloys by RGI*, Tehnomus: New Technologies and Products in Machine Manufacturing Technologies, 20, 125–130, 2013
- [5] **Bălțătescu O.**, Florea R. M., Buzăianu A., Roman C., Carcea I., *Manufacturing and characterization of stabilized aluminium foams*, International Journal of Modern Manufacturing Technologies, Editura Politehniun Publishing House, V (1), 59–65, 2013
- [6] **Bălțătescu O.**, Roman C., Rusu I., Carcea I., *A short overview about stabilized aluminium foams*, Tehnomus: New Technologies and Products in Machine Manufacturing Technologies, (20), 416–420, 2013
- [7] **Bălțătescu O.**, Florea R. M., Roman C., Carcea I., *Composite Based on AlMg Alloys Obtained by Gas Insufflation*, The Annals of “Dunarea de Jos” University of Galati, IX (4), 22–26, 2013
- [8] Florea I., Florea R.M., **Bălțătescu O.**, Soare V., Roman C. și Carcea I., *Research on physicochemical properties of high entropy alloys*, Proceedings of the 15th International Conference, Modern Technologies, Quality and Innovation, ISSN 2069-6736, Volume I, ModTech Publishing House, 2013
- [9] **Bălțătescu O.**, Carcea I., Rusu I., *Metallic composites foams with particles made by gas insufflations*, International Journal of Engineering and Innovative Technology, 3 (8), 2014, ISSN (Online) 2277-3754
- [10] Florea R.M., **Bălțătescu O.**, *Aluminium matrix composites reinforced with AlN particles formed by „in-situ” reaction*, International Journal of Engineering and Innovative Technology, 3 (9), pp. 1–4, 2014
- [11] **Bălțătescu O.**, Chicet D., Axinte M., Bujoreanu C., *A study on damping capacity of aluminium based metallic foam*, Editura Universității „Ștefan cel Mare” Suceava, (22), 556–560, 2015

I. Lucrări științifice publicate în volumele conferințelor.

J. Invenții.

K. Contracte de cercetare.

L. Premii, distincții.

M. Alte realizări semnificative.

Data,
12.10.2017

* Conform H.G. 1175/ 2006