

## Lista de lucrări :

### Lucrari publicate în domeniul tezei de doctorat:

#### a) Reviste cotate ISI:

1. **S. Lupescu**, C. Munteanu, E.V. Sindilar, B. Istrate, I. Mihai, B. Oprisan, and A.S. Pasca, Long-Term Examination of Degradation and In Vivo Biocompatibility of Some Mg-0.5Ca-xY Alloys in Sprague Dawley Rats, *MATERIALS*, 2022, 15(17), 5958; <https://doi.org/10.3390/ma15175958> (registering DOI), FI (2021): **3.748 (Q1)**

1. B. Istrate, C. Munteanu, **S. Lupescu**, R. Chelariu, M.D. Vlad, P. Vizureanu, *MATERIALS*, Vol. 13, Is. 14, Article Number: 3082, 2020, DOI: 10.3390/ma13143082, WOS:000554140300001, FI (2020): **3.653 (Q1) - autor corespondent**

2. **S Lupescu**, C Munteanu, B Istrate, K Earar, The Influence of Zr on Microstructure, Mechanical Properties and Corrosion Resistance in Mg-Y-Zr Biodegradable Alloys, *REV.CHIM.(Bucharest)*, Vol. 69, No. 12, pp. 3382-3385, 2018, WOS:000458533800010, FI(2019): **1.755**

3. **S Lupescu**, B Istrate, C Munteanu, M G Minciuna, S Focsaneanu, K Earar, Characterization of Some Master Mg-X System (Ca, Mn, Zr, Y) Alloys Used in Medical Applications, *REV.CHIM.(Bucharest)* Vol. 68 No. 6 pp. 1408-1413, 2017, WOS:000408702900034, FI(2019): **1.755**

4. Burduhos Nergis D.D.; Vizureanu P., Vizureanu P.; **Lupescu S.**; Burduhos Nergis D.P.; Perju M.C.; Sandu A.V., Microstructural Analysis of Ambient Cured Phosphate Based-Geopolymers with Coal-Ash as Precursor, *Archives of Metallurgy and Materials* Volume 67, Issue 2, Pages 595 - 600 2022

#### Lucrări publicate în volumele conferințelor

#### b) Volume indexate ISI:

1. **Lupescu S** ; Munteanu C; Istrate B; Luca D; Benchea M; Mahu G, Experimental, microstructural and tribological studies of the system Mg-2Ca-5Y, *IOP Conference Series- Materials Science and Engineering*, Volume: 444, Article Number: 032008, DOI:10.1088/1757-899X/444/3/032008, Published:2018, WOS:000467443600030

2. B Istrate, T Voloseniuc, C Munteanu and **S Lupescu**, Topical Notions About in Vivo Analysis for Degradable Biomaterials with Utility in Human Body, *IOP Conf. Series: Materials Science and Engineering* 374 (2018) 012092 doi:10.1088/1757-899X/374/1/012092, WOS:000446775900092

3. Istrate, B; Munteanu, C; **Lupescu, S**; Benchea, M; Vizureanu, P, Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr<sub>3</sub>C<sub>2</sub>-NiCr Coatings on Magnesium Substrate, *IOP Conference Series- Materials Science and Engineering*, Volume: 209, Article Number: 012024, DOI: 10.1088/1757-899X/209/1/012024, Published: 2017, WOS:000423732100024

4. **S Lupescu**, C Munteanu, B Istrate, S Stanciu, N Cimpoesu, B Oprisan, Microstructural Investigations on Alloy Mg-2Ca-0.2Mn-0.5Zr-1Y, IOP Publishing IOP Conf. Series: Materials Science and Engineering 209 (2017), 012018 doi:10.1088/1757-899X/209/1/012018, WOS:000423732100018

*c) Reviste incluse în BDI (INSPEC, ZMATH, SCOPUS etc.):*

1. Oprisan, D. Vasincu, **S. Lupescu**, C. Munteanu, B. Istrate, D. Popescu, C. Condratovici, A.R. Dimofte, K. Earar, Electrochemical analysis of some biodegradable Mg-Ca-Mn alloys, Revista de Chimie, Volume 70, Issue 12, 2019, Pages 4525-4530, DOI: 10.37358/RC.19.12.7788, autor corespondent

2. B Istrate, C Munteanu, **S Lupescu**, V-I Antoniac and E Sindilar, Structural Characterization of Mg-0.5Ca-xY Biodegradable Alloys, Key Engineering Materials, ISSN: 1662-9795, Vol. 782, pp 129-135, doi:10.4028/www.scientific.net/KEM.782.129

3. C Munteanu, S Lupescu, B Istrate, V-I Antoniac, M Benchea and A Savin, Some Tribological Aspects of Mg-0.5Ca-xY Biodegradable Materials, Key Engineering Materials, Vol. 782, pp 136-141, doi:10.4028/www.scientific.net/KEM.782.136

4. **S Lupescu**, C Munteanu, A Tufescu, B Istrate and N Basescu, Contact stress simulation problem in case of the Mg alloys, ACME 2020, IOP Conf. Series: Materials Science and Engineering 997 (2020) 012024, IOP Publishing, doi:10.1088/1757-899X/997/1/012024

#### **Lucrari publicate în domeniul conexe tezei de doctorat:**

*a) Reviste cotate ISI:*

1. Roman, T; Pui, A; Lukacs, AV ; Cimpoesu, N; **Lupescu, S**; Borhan, AI; Kordatos, K; Ntziouni, A; Postolache, P; Zaharia, M; Stanciu, S; Mitoseriu, L, Structural changes of cerium doped copper ferrites during sintering process and magneto-electrical properties assessment, CERAMICS INTERNATIONAL, Volume:45, Issue:14, Pages:17243-17251, DOI:10.1016/j.ceramint.2019.05.280, OCT2019, WOS:000482244200066, FI(2019): **4.527(Q1)**

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*Lucrări publicate în volumele conferințelor*

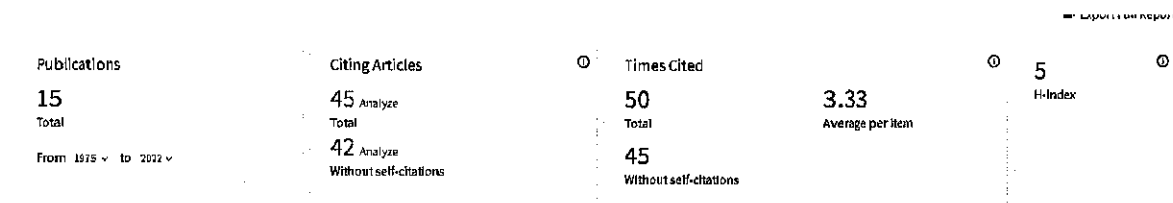
*b) Volume indexate ISI:*

2. G Mahu, C Munteanu, B Istrate, M Benchea and **S Lupescu**, Influence of Al<sub>2</sub>O<sub>3</sub>-13TiO<sub>2</sub> powder on a C45 steel using atmospheric plasma spray process, IOP Conf. Series: Materials Science and Engineering 444 (2018) 032010 doi:10.1088/1757-899X/444/3/032010, WOS:000467443600032

3. Paulin C; Chicet D; Paleu V ; Benchea M; **Lupescu S**; Munteanu C, Dry friction aspects of Ni-based self-fluxing flame sprayed coatings, IOP Conference Series-Materials Science and Engineering, Volume: 227, Article Number: 012091, DOI: 10.1088/1757-899X/227/1/012091, Published: 2017, WOS:000409221600091

4. M PANȚURU, D CHICET, Ș LUPESCU, B ISTRATE, C MUNTEANU, APPLICATIONS OF CERAMIC COATINGS AS TBCs ON THE INTERNAL COMBUSTION ENGINE VALVES, ACTA TECHNICA NAPOCENSIS Series: Applied Mathematics, Mechanics, and Engineering , Vol. 61, Issue I, March, 2018

Teza de doctorat intitulată: „**CERCETĂRI ASUPRA UNOR BIOMATERIALE METALICE BIODEGRADABILE PE BAZĂ DE MAGNEZIU UTILIZATE ÎN APLICATII MEDICALE**”. Sub conducerea domnului prof. univ. dr.ing. Munteanu Corneliu



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	All	Since 2016
Citations	64	64
h-index	5	5
i10-index	1	1

### Carti sau capitole

#### *Indrumare de Laborator:*

C. Munteanu, B.Istrate, S. Lupescu Studiul Materialelor – Indrumar de Laborator, Ed. “Europlus”, 161 pg., 2016, Galati, ISBN: 978-606-628-166-9:

**Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câștigate prin competiție națională sau încheiate cu institute de cercetare, companii, regii, societăți comerciale**

**Membru** - Proiect Component 1 (ORTOMAG) - Proiect Complex „OBTINEREA ȘI EXPERTIZAREA UNOR NOI MATERIALE BIOCOMPATIBILE PENTRU APLICAȚII MEDICALE”, Contract Nr. 60PCCDI/2018, PN-III-P1-1.2-PCCDI-2017-0239, 2018-2021, Director – Prof.dr.ing. Munteanu Corneliu

**Membru** - ”Cercetări științifice și aplicații practice pentru prototipurile C.En în domeniul stocării hidrogenului în materiale din sticlă” – Contract Nr. 7294/05.04.2019 –agent economic, 2019-2020, Director – Prof.dr.ing. Munteanu Corneliu

**Membru** - Contract tip ROSE SGU-N, nr. AG-206/2019, etapa 2019-2020, Director – Sef.lucr. dr.ing. Iulian Agape