

Titlu proiect: *Procesarea avansată în soluție, inovativă, rapidă a suprafeței unui nou bioaliag pentru îmbunătățirea interacțiilor sale cu fluide umane*

Categoria de proiect: *PN-II-ID-PCE*

Contractul de finanțare: *278/2011*

Director proiect: *Jose Maria Calderon Moreno*

Lista rezultate

Nr. crt.	NUME AUTORI	TITLUL ARTICOLULUI/ CĂRȚII / COMUNICĂRII ȘTIINȚIFICE	REVISTA / VOLUMUL/EDITURA IN CARE A APARUT / CONFERINȚA LA CARE S-A COMUNICAT	ANUL PUBLICĂRII/ COMUNICĂRII
ARTICOLE ISI				
1	C. Vasilescu, M. Popa, S. I. Drob, P. Osiceanu, M. Anastasescu, J. M. Calderon Moreno	Deposition and characterization of bioactive ceramic hydroxyapatite coating on surface of Ti-15Zr-5Nb alloy	Ceram. Int., 40 (9 Part B), 14973–14982	2014
2	J. M. Calderon Moreno, C. Vasilescu, S. I. Drob, S. Ivanescu, P. Osiceanu, P. Drob, M. Popa, S. Preda, E. Vasilescu,	Microstructural and mechanical properties, surface and electrochemical characterisation of a new Ti-Zr-Nb alloy for implant applications	J. Alloy Compd., 612, 398-410	2014
3	J. M. Calderon Moreno, C. Vasilescu, S. I. Drob, E. I. Neacsu, M. Popa	Evaluation of the microstructural, mechanical and anti-corrosive properties of a new ternary Ti-15Zr-5Nb alloy in simulated oral environment	Mater. Corros., 65 (7), 703-714	2014
4	J. M. C. Moreno, C. Vasilescu, S. I. Drob, P. Osiceanu, V. Mitran, A. Cimpean, G. Parcalabioru, M. C. Chifiriuc, M. Popa	ZnO coating of Ti-5Zr-5Nb alloy, antibiofilm activity, cell response and corrosion resistance in simulated body fluid	METALS AND MATERIALS INTERNATIONAL / Under review	2016
COMUNICARI ȘTIINȚIFICE NATIONALE				
1	J. M. C. Moreno, E. Vasilescu, S. I. Drob, S. Ivanescu, P. Osiceanu, M. Popa, S. Preda, E. Vasilescu	Characterization of a new Ti-Zr-Nb alloy for implant applications	Book of Abstracts ROMPHYSICHEM 16	2016
COMUNICARI ȘTIINȚIFICE INTERNAȚIONALE				
1	J. M. Calderon Moreno, P. Drob, C. Vasilescu, S. I. Drob, M. Popa, E. Vasilescu	Oxide nanolayers grown on new ternary Ti based alloy surface by galvanic anodizing – characteristics and anticorrosive properties	19th International Corrosion Congress	2014
2	M. Popa, C. Vasilescu, S. I. Drob, P. Osiceanu, M. Anastasescu, J. M. C. Moreno	Characterisation and stability of ceramic biomimetic nanolayers obtained on surface of a new bioalloy	XXII International Symposium on Bioelectrochemistry and Bioenergetics	2015
3	J. M. C. Moreno, S. I. Drob, C. Vasilescu, E. Vasilescu	Deposition and properties of bacteriostatic nanocoating by sonochemical method	XXII International Symposium on Bioelectrochemistry and Bioenergetics	2015
4	M. Popa, C. Vasilescu, S. I. Drob, J. M. C. Moreno	Characterization of bioactive hydroxyapatite coating on ternary Ti-Zr-Nb alloy surface	EUROCORR 2015	2015

5	J. M. C. Moreno, C. Vasilescu, S. I. Drob, M. Popa,	Corrosion modeling of a new Ti-Zr-Nb alloy in Ringer's solutions simulating severe functional conditions	EUROCORR 2015	2015
6	S. I. Drob, J. M. C. Moreno, C. Vasilescu, P. Osiceanu, M. Anastasescu, M. Popa,	Chemical treatment of new Ti-Zr-Nb alloy surface by applying hydroxyapatite coating	19th Topical Meeting of the International Society of Electrochemistry	2016
7	J. M. C. Moreno, S. I. Drob, C. Vasilescu, P. Osiceanu, E. Vasilescu, M. Popa,	Deposition and properties of bacteriostatic nanocoating by sonochemical method	6th Baltic Electrochemistry Conference	2016
8	M. Popa, C. Vasilescu, S. I. Drob, P. Osiceanu, M. Anastasescu, E. Vasilescu, J. M. C. Moreno	Characterisation and stability of ceramic biomimetic nanolayers obtained on the surface of a new bioalloy	6th Baltic Electrochemistry Conference	2016
9	J. M. C. Moreno, S. I. Drob, C. Vasilescu, P. Osiceanu, M. Popa, E. Vasilescu	Deposition and properties of bacteriostatic nanocoating by sonochemical method	13th International Conference on Nanosciences & Nanotechnologies	2016
10	M. Popa, C. Vasilescu, S. I. Drob, P. Osiceanu, M. Anastasescu, E. Vasilescu, J. M. C. Moreno	Characterisation and stability of ceramic biomimetic nanolayers obtained on the surface of a new bioalloy	13th International Conference on Nanosciences & Nanotechnologies	2016
11	J. M. C. Moreno, S. I. Drob, C. Vasilescu, E. Vasilescu, P. Osiceanu, M. Popa	In-situ Sonochemical Synthesis and Deposition of Bacteriostatic ZnO Nanocrystallite Coatings for Biological/Medical Applications	2nd Zing Nanocrystals Conference	2016
12	M. Popa, C. Vasilescu, S. I. Drob, P. Osiceanu, M. Anastasescu, E. Vasilescu, J. M. C. Moreno	Deposition of Ceramic Biomimetic Nanocrystal Layer on a New Biomedical Alloy Surface	2nd Zing Nanocrystals Conference	2016
CERERI BREVET DE INVENTII/BREVET OBTINUT				
1	J. M. C. Moreno, M. Popa, C. Vasilescu, S. I. Drob, V. Mitran, A. Cimpean	Procedura sonochimica pentru nanoacoperire antibacteriana aplicata pe suprafata unui nou aliaj ternar de titan cu aplicatie in implantologia ortopedica	OSIM	2016

Lista achizițiilor realizate în cadrul proiectului

Denumire echipament	Categorie de achiziții*: (numai mijloace fixe)	Valoarea (lei)	Locație
PC Lenovo	IMOBILIZARI CORPORALE	3.156,30	ICF
Imprimanta	IMOBILIZARI CORPORALE	489,00	ICF

Director proiect,

Jose Maria Calderon Moreno