

Titlu proiect: Dispozitive MEMS piezoelectrice pentru generarea eficientă a energiei -

PiezoMEMS

Categoria de proiect: M-ERA.NET

Contractul de finanțare: 12/2015

Manager proiect: Dr. Gartner Florica-Mariuca

Lista rezultate final

Nr. crt.	NUME AUTORI	TITLUL ARTICOLULUI / CĂRȚII / COMUNICĂRII ȘTIINȚIFICE	REVISTA / VOLUMUL/EDITUR A IN CARE A APARUT / CONFERINȚA LA CARE S-A COMUNICAT	ANUL PUBLICĂRII / COMUNICĂRII
ARTICOLE ISI				
1	C. Vladuț, S. Mihaiu, O. C. Mocioiu, I. Atkinson, J. Pandele-Cusu, E. Anghel, M. Zaharescu	“Thermal studies of Mn-doped ZnO powders formation from sol-gel derived gels”	J. Therm. Anal. Clorim	Trimis pe 2017
	C. Vladut, S. Mihaiu, E. Tenea, S. Preda, J. M. Calderon-Moreno, M. Anastasescu, H. Stroescu, I. Atkinson, M. Gartner, C. Moldovan and M. Zaharescu	“Optical and piezoelectric properties of Mnn+ doped ZnO Films deposited by Sol-Gel and Hydrothermal Methods”	Journal of Nanomaterials -	2018
	C. Vladut, S. Mihaiu, O.C. Mocioiu, I. Atkinson, J. Pandele-Cusu, E. M. Anghel, J. M. Calderon-Moreno, M. Zaharescu	Thermal studies of Mn ²⁺ doped Zn powders formation by sol-gel method”	Journal of Thermal Analysis and Calorimetry - https://doi.org/10.1007/s10973-018-7592-1	2018
COMUNICARI ȘTIINȚIFICE INTERNAȚIONALE				
1	Vladut Maria Cristina Prezentare Orala	Mn doped ZnO thin films for harvesting applications obtained by sol-gel method”	Conferinta Internationala de Chimie Fizica –Editia a-16-a ROMPHYSICHEM	2016
2	C. Vladut, S. Mihaiu, C. Moldovan, M. Anastasescu, H. Stroescu, S. Preda, J. Calderon Moreno, P. Osiceanu, M. Gartner, M. Zaharescu.	“Influence of dopants on the properties of ZnO films obtained by sol-gel method”	“9th International Sol Gel Conference”, Liege, Belgium, September 3 - 8, 2017.	2017
n	S. Mihaiu, C. Vladut, E. Tenea, P. Osiceanu, J.M. Calderon-Moreno, M. Anastasescu, H. Stroescu, M. Gartner, M. Zaharescu	„Nanostructured Zinc Oxide Films doped with Transitional Metals obtained by chemical methods for piezoelectric applications”	International Semiconductor Conference, CAS, Sinaia, Romania, October 10-12, 2018	2018
	M. Anastasescu, C. Vladut, S. Mihaiu, E. Tenea, M. Gheorghe, M. Dinescu, S. Preda, P. Osiceanu, J.M. Calderon-Moreno, H. Stroescu, C. Moldovan, M. Gartner, M. Zaharescu	„Small-scale power energy harvester based on PZT and doped-ZnO thin films for portable microsystems	E-MRS Fall Meeting, Warsaw University of Technology, Poland, September 17-19, 2018	2018
	H. Stroescu, M. Anastasescu, L. Predoana, S. Preda, J. Calderon, P. Terziyska, S. Simeonov, A. Szekeres, M. Zaharescu, M. Gartner	„Preparation and characterization of TiO ₂ thin films for harvesting applications and optoelectronic devices”	20th Jubilee International School on Condensed Matter Physics, St. Constantine and Elena, Varna, Bulgaria, September 2-8, 2018	2018
	M. Nicolescu, M. Anastasescu, P. Osiceanu, J. M. Calderon Moreno, C. Vladut, S. Mihaiu. S. Preda, E. Tenea, M. Zaharescu, M. Gartner	“Piezoelectric materials based on doped ZnO nanowires”	8th edition of the International Conference “Advanced	2018

			Topics in Optoelectronics, Microelectronics and Nanotechnologies". ATOM-N 2018 Constanta, Romania, August 23 - 26, 2018	
	M. Modreanu, I. Povey, S. Doyle, M. Stoica*, M. Anastasescu, M. Gartner	"Ellipsometric study on TiO ₂ / ZnO bilayer laminate films for piezoelectric applications"	WSE10: 10th Workshop Ellipsometry – 2018, Technische Universität Chemnitz, Germany, March 19-21, 2018	2018
	M. Modreanu, I. Povey, S. Doyle, M. Stoica, M. Anastasescu, M. Gartner	"TiO ₂ / ZnO laminate films for piezoelectric applications"	International Semiconductor Conference, CAS, Sinaia, Romania, October 10-12, 2018	2018
ALTE rezultate				
1	Drd. Cristina Vladut		sustine pe 29 oct. 2018 teza „Materiale ceramice cu proprietăți speciale bazate pe ZnO”, tema tezei fiind legata de actualul proiect.	2018
n				

Lista achizițiilor realizate în cadrul proiectului

Denumire echipament	Categorie de achiziții: (numai mijloace fixe)	Valoarea (lei)	Locație
Sistem Piezometer PM 300	Cerere de oferta	96.897	Cam 135
Dell Precision Tower 3620XCTO BASE, Intel Core i7-7700, 16GB RAM (2x8GB) 2400MHz, 256GB SSD Class 20, 2TB HDD 7200 RPM, Sursa 365W 90%EFF, Windows 10 Pro, 3 ani garantie cu ProSupport si KYHDD	Directa/2017	6.167	Cam 134
Monitor Dell 27", UltraSharp, QHD, DisplayPort, HDMI, Negru, U2715H	Directa/2017	713.71	Cam 134
Microsoft Office Home and Business 2016, Engleza, pentru Windows PC	Directa/2017	889.99 0	Cam 134
Microsoft Windows 10 Home, 32/64 bit, Engleza, Retail, USB	Directa/2017	499.99	Cam 134

**Responsabil proiect, (P1)
Dr. Gartner Florica-Mariuca**