

## Anexa 2a

**Titlu proiect:** Procese de comutare a magnetizării asistate energetic - efecte dinamice și termice (DYNAMIC)

**Categoria de proiect:** Proiecte de cercetare pentru stimularea constituirii de tinere echipe de cercetare independente

**Contractul de finanțare:** 25 / 26.04.2013

**Manager proiect:** Lector dr. D. Cimpoesu

### 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	D. Cimpoesu, L. Stoleriu, and A. Stancu	Generalized Stoner- Wohlfarth model accurately describing the switching processes in pseudo-single ferromagnetic particles	Journal of Applied Physics 114(22), 223901-1-6 (2013). DOI: 10.1063/1.4839895	2013
2	I. Dumitru, D. Cimpoesu, and A. Stancu	Measurements on real and imaginary parts of transverse susceptibility of particulate system	IEEE Trans. Magn. 50(11), 6101104, (2014). DOI: 10.1109/TMAG.2014.2 331176	2014
3	E. Oniciuc, L. Stoleriu, D. Cimpoesu, and A. Stancu	Effect of damping on the laser induced ultrafast switching in rare earth- transition metal alloys	Appl. Phys. Lett. 104(22), 222404-1-4 (2014). DOI: 10.1063/1.4881135	2014
4	I. Dumitru, I. Astefanoaei, D. Cimpoesu, and A. Stancu	Magnetic behavior of Joule-heated magnetic core-shell nanowires with positive magnetostrictive core material	Applied Surface Science 352, 54-59 (2015). DOI: 10.1016/j.apsusc.2015.0 3.055	2015
5	L. Stoleriu, A. Stancu, P. Chakraborty, A. Hauser, and C. Enachescu	Analysis of first order reversal curves in the thermal hysteresis of spin- crossover nanoparticles within the mechanoelastic model	J. Appl. Phys. 117(17), 17B307-1-4 (2015). DOI: 10.1063/1.4914953	2015
6	D. Cimpoesu, I. Dumitru, and A. Stancu	Kinetic effects observed in dynamic first-order reversal curves of magnetic wires: Experiment and theoretical description	J. Appl. Phys. 120(17), 173902-1-14 (2016). DOI: 10.1063/1.4966608	2016

ARTICOLE ALTE BAZE DE DATE				
1				
n				
CARTI				
1				
n				
DOCUMENTATIE TEHNICA. BREVETE				
1				
n				
COMUNICARI STIINTIFICE NATIONALE				
1				
n				
COMUNICARI STIINTIFICE INTERNATIONALE				
1	D. Cimpoesu, L. Stoleriu, and A. Stancu	Generalized Stoner-Wohlfarth model accurately describing the switching processes in pseudo-single and multi domain ferromagnetic particles	58th MMM Conference, November 4-8, 2013, Denver, Colorado, USA	2013
2	L. Stoleriu, R. Tanasa, A. Stancu, M. Anastasios, and P. Ioannis	Micromagnetic study of magnetization processes in patterned media deposited using polystyrene sphere array masks	58th MMM Conference, November 4-8, 2013, Denver, Colorado, USA	2013
3	I. Dumitru, D. Cimpoesu, and A. Stancu	Dynamic First Order Reversal Curves measurements on magnetic microwires	10th IEEE ROMSC Conference, September 2-3, 2013, Iasi, Romania	2013
4	E. Oniciuc, L. Stoleriu, D. Cimpoesu, and A. Stancu	Landau-Lifshitz-Bloch equation for modeling thermal magnetic recording: the most convenient approach?	10th IEEE ROMSC Conference, September 2-3, 2013, Iasi, Romania	2013
5	E. Oniciuc, L. Stoleriu, D. Cimpoesu, and A. Stancu	New approaches to the calculation of Stoner-Wohlfarth critical curves: modeling of the polarized current and temperature effects	10th IEEE ROMSC Conference, September 2-3, 2013, Iasi, Romania	2013
6	E. Oniciuc, L. Stoleriu, D. Cimpoesu, and A. Stancu	THz oscillations in antiferromagnetically coupled sublattices, multilayers and heterostructures mediating all-optical helicity dependent magnetic switching	59th MMM Conference, November 3-7, 2014, Honolulu, USA	2014
7	I. Dumitru, D. Cimpoesu, and A. Stancu	Experimental study of frequency dependence of transverse susceptibility	11th Intermag Conference, May 4-8, 2014, Dresden, Germany	2014

8	I. Astefanoaei, I. Dumitru, D. Cimpoesu, and A. Stancu	Temperature field in dc Joule - heated magnetic core-shell nanowires	11th InterMag Conference, May 4-8, 2014, Dresden, Germany	2014
9	E. Oniciuc, L. Stoleriu, D. Cimpoesu, and A. Stancu	Femtosecond and nanoscale processing of magnetic information: multiscale modelling	International Conference on Applied and Theoretical Electricity (ICATE), October 23-25, 2014, Craiova, Romania	2014
10	I. Dumitru, I. Astefanoaei, D. Cimpoesu, and A. Stancu	Effective anisotropy in heated magnetic core-shell nanowires	International Conference on Physics of Advanced Materials (ICPAM-10), September 22-28, 2014, Iasi, Romania	2014
11	E. Oniciuc, L. Stoleriu, D. Cimpoesu, and A. Stancu	All-optical helicity-dependent magnetic switching: multiscale modelling and devices design	11th IEEE ROMSC Conference, June 13, 2014, Iasi, Romania	2014
12	D. Cimpoesu, L. Stoleriu, and A. Stancu	Generalized Stoner-Wohlfarth model for pseudo-single ferromagnetic particles	11th IEEE ROMSC Conference, June 13, 2014, Iasi, Romania	2014
13	D. Cimpoesu, I. Dumitru, and A. Stancu	New characterization technique of dynamic hysteresis in magnetic wires	2015 EMN Bangkok Meeting, November 10-13, 2015, Bangkok, Thailand	2015
14	D. Cimpoesu, I. Dumitru, and A. Stancu	Dynamic FORC measurements in magnetic wires	7th International Workshop on Amorphous and Nanostructured Magnetic Materials (ANMM) 2015, 21-24 September 2015, Iasi, Romania	2015
15	D. Cimpoesu, I. Dumitru, and A. Stancu	Kinetic effects observed in dynamic FORCs of magnetic wires. Experiment and theoretical description	2015 First Order Reversal Curve (FORC) Workshop, July 23-24, 2015, Minneapolis, Minnesota, USA	2015
16	L. Stoleriu and A. Stancu	Mean field parameter identification with FORC	2015 First Order Reversal Curve (FORC) Workshop, July 23-24, 2015, Minneapolis, Minnesota, USA	2015
17	D. Cimpoesu, I. Dumitru, and A. Stancu	Experimental frequency dependent dynamic FORC in ferromagnetic wires	International Symposium on Hysteresis Modeling and Micromagnetics (HMM), May 18-20, 2015, Iasi, Romania	2015

18	C. Dobrota and A. Stancu	<b>FORC Diagram: Coercivity, Interactions and Switchings' Multiplicity</b>	<b>International Symposium on Hysteresis Modeling and Micromagnetics (HMM), May 18-20, 2015, Iasi, Romania</b>	2015
19	E. Oniciuc	<b>New Thermodynamic Paradigms in Low Dimensional Magnetic Structures Far from Equilibrium</b>	<b>International Symposium on Hysteresis Modeling and Micromagnetics (HMM), May 18-20, 2015, Iasi, Romania</b>	2015
20	D. Cimpoesu, I. Dumitru, and A. Stancu	<b>Kinetic effects observed in dynamic FORCs of magnetic wires. Experiment and theoretical description</b>	<b>13th Joint MMM-Intermag Conference, January 11-15, 2016, San Diego, USA</b>	2016
21	D. Cimpoesu, I. Dumitru, and A. Stancu	<b>Characterising magnetic wires from static to dynamic using FORC diagrams</b>	<b>5th Euro-Asian Symposium "Trends in Magnetism" (EASTMAG), August 15-19, 2016, Krasnoyarsk, Russia</b>	2016
22	D. Cimpoesu, A. Stancu, D. J. Adams, and L. Spinu	<b>Ferromagnetic resonance critical curves for synthetic antiferromagnets</b>	<b>7th Baikal International Conference "Magnetic Materials. New Technologies" (BICMM), August 22-26, 2016, Irkutsk, Russia</b>	2016
23	D. Cimpoesu, I. Dumitru, and A. Stancu	<b>Characterizing the magnetization processes in magnetic wires with dynamic FORC diagrams</b>	<b>61st MMM Conference, October 31 - November 4, 2016, New Orleans, Louisiana, USA</b>	2016

**Lista achizițiilor realizate în cadrul proiectului**

<b>Denumire echipament</b>	<b>Categorie de achiziții*: (numai mijloace fixe)</b>	<b>Valoarea (lei)</b>	<b>Locație</b>
Sursa bipolară de putere BOP 72-14MG	1	38864	

**Categorie de achiziții\*:**

1. Echipamente și aparatură de cercetare
2. Rețele de comunicații specializate
3. Baze de date și informații de specialitate
4. Echipamente și mijloace moderne de documentare și comunicare
5. Alte categorii

**Director proiect,**

**Lector dr. D. Cimpoeșu**

