

Anexa 2a

Titlu proiect: Microwave behaviour study on nonsaturated magnetic nanowire systems

Categoria de proiect: PN-II-RU-TE-2012-3-0449

Contractul de finanțare: 26/26.04.2013

Manager proiect: Conf. dr. Ioan DUMITRU

Lista rezultate

Nr. crt.	NUME AUTORI	TITLUL ARTICOLULUI/ CĂRȚII / COMUNICĂRII ȘTIINȚIFICE	REVISTA / VOLUMUL/EDITURA IN CARE A APARUT / CONFERINTA LA CARE S-A COMUNICAT	ANUL PUBLICARII/ COMUNICARII
ARTICOLE ISI				
1	Ioan Dumitru, Dorin Cimpoesu, and Alexandru Stancu	Measurements on real and imaginary parts of transverse susceptibility of particulate system	IEEE Trans. Magn. 50(11), (2014), http://dx.doi.org/10.1109/TMAG.2014.2331176	2014
2	<u>Dan Durneata, Rolf Hempelmann, Ovidiu Caltun</u> and Ioan Dumitru	High frequency specific absorption rate of CoxFe1-xFe2O4 ferrite nanoparticles for hipertermia applications	IEEE Transactions on Magnetics, 50, 5201104, 2014, http://dx.doi.org/10.1109/TMAG.2014.2324011	2014
3	<u>A.M. Dumitrescu, A.I. Borhan, A.R. Iordan, I. Dumitru, M.N. Palamaru</u>	Influence of chelating/fuel agents on the structural features, magnetic and dielectric properties of Ni ferrite	Powder Technology 268 (2014) 95–101, http://dx.doi.org/10.1016/j.powtec.2014.08.022	2014
4	<u>Sorin-Bogdan Balmus, Cristina Ciomaga, Nadejda Horchidan, Liliana Mitoseriu</u> and Ioan Dumitru	Improvement of Impedance Spectroscopy Methods. Sample's resonance analysis	Measurement Science and Technology, 2015, (26), article id. 065601, DOI: 10.1088/0957-0233/26/6/065601	2015
5	<u>Ioan Dumitru, Iordana Astefanoaei, Dorin Cimpoesu, Alexandru Stancu</u>	Magnetic behavior of dc Joule - heated magnetic core-shell nanowires	Applied Surface Science, 2015, (352), p54-59, DOI: 10.1016/j.apsusc.2015.03.0551	2015
6	Iordana Astefanoaei, Ioan Dumitru, Horia Chiriac, Alexandru Stancu	Thermo-fluid analysis in Magnetic Hyperthermia using low Curie temperature particles	IEEE Transactions on Magnetics 52(7):1-1 · July 2016, DOI: 10.1109/TMAG.2015.2512439	2016

	<u>Georgiana Bulai, Lucian Diamandescu, Ioan Dumitru, Silviu Gurui, Marcel Feder, Ovidiu Florin Caltun</u>	Effect of rare earth substitution in cobalt ferrite bulk materials	Journal of Magnetism and Magnetic Materials 390, 123-131, 2015, DOI: 10.1016/j.jmmm.2015.04.089	2015
7	<u>Dorin Cimpoesu, Ioan Dumitru and Alexandru Stancu</u>	Kinetic effects observed in dynamic FORCs of magnetic wires. Experiment and theoretical description	Journal of Applied Physics 120(17), 2016, DOI: 10.1063/1.4966608	2016
8	<u>Iordana Astefanoaei, Horia Chiriac and Alexandru Stancu</u>	Investigation of the temperature field in the magnetic hyperthermia using FeCrNbB magnetic particles	Eur. Phys. J. Plus (2016) 131: 322, DOI 10.1140/epjp/i2016-16322-1	2016
9				
ARTICOLE ALTE BAZE DE DATE				
1	<u>Andrei Diaconu, Ioan Dumitru, Leonard Spinu</u>	The temperature dependence of magnetostatic interactions in nanowire systems	Development and Application Systems (DAS), 2014 International Conference on, IEEE Conference Publications, 2014, 132 - 136, http://dx.doi.org/10.1109/DAAS.2014.6842442	2014
2	Samir Taloub, Farida Hobar, Iordana Astefanoaei, Ioan Dumitru, Ovidiu Florin Caltun	FEM Investigation of Coated Magnetic Nanoparticles for Hyperthermia	Nanoscience and Nanotechnology 2016, 6(1A): 55-61, DOI: 10.5923/c.nn.201601.10	2016
3	Branko Koprivica, Ioan Dumitru, Alenka Milovanovic1 and Ovidiu Caltun	Harmonic analysis and modelling of magnetisation process in soft ferromagnetic material	FACTA UNIVERSITATIS, Series: Electronics and Energetics Vol. 30, No 1, 2016, pp. 121 - 136, DOI: 10.2298/FUEE1701121K	2016
4	Iordana Astefanoaei, Ioan Dumitru and Alexandru Stancu	Laser heating of the core-shell nanowires	American Institute of Physics Conference Proceedings Series (AIP-CP) , TIM 15-16, accepted	2016
CARTI				
1				
n				
DOCUMENTATIE TEHNICA, BREVETE				
1				
n				
COMUNICARI STIINTIFICE NATIONALE				
1				
n				
COMUNICARI STIINTIFICE INTERNATIONALE				

1.	<u>Ioan Dumitru, Dorin Cimpoesu, and Alexandru Stancu</u>	Dynamic First Order Reversal Curves measurements on magnetic microwires	IEEE ROMSC 2013, Iasi, Romania,	September 2-3, 2013
2.	<u>Ioan Dumitru, Dorin Cimpoesu, and Alexandru Stancu</u>	Measurements on real and imaginary parts of transverse susceptibility of particulate system	58th MMM Conference, Denver, USA,	November 04-08, 2013
3.	<u>Ioan DUMITRU, Iordana Astefanoaei, Dorin Cimpoesu, Alexandru Stancu</u>	Effective Anisotropy In Heated Magnetic Core-Shell Nanowires	International Conference on Physics of Advanced Materials (ICPAM-10), Iasi, Romania,	September 22-28, 2014
4.	Dan Durneata, Rolf Hempelmann, Ovidiu Caltun and Ioan Dumitru	High frequency absorption rate of $\text{CoxFe}_{1-x}\text{Fe}_2\text{O}_4$ ferrite nanoparticles	2014 International Magnetics Conference (INTERMAG 2014), Dresden Germany	May 4-8, 2014
5.	<u>Ioan Dumitru, Dorin Cimpoesu, and Alexandru Stancu</u>	Experimental study of frequency dependence of transverse susceptibility	2014 International Magnetics Conference (INTERMAG 2014), Dresden Germany	May 4-8, 2014
6.	<u>Elena Vasilica Gafton, Ioan Dumitru, Ovidiu Florin Caltun, Adrian Borhan, Andrei Diaconu, Irina Valentina Vararu, Mircea Nicolae Palamaru, Alexandra Raluca Iordan</u>	Synthesis of manganese ferrites for sensor application	10th European Conference on Magnetic Sensors and Actuators, Vienna, Austria,	July 6-9, 2014
7.	<u>Georgiana Andreea Bulai, Lucian Diamandescu, Silviu Gurlui, Marcel Feder, Ovidiu Florin Caltun, Ioan Dumitru</u>	Magnetic and magnetostrictive behavior of rare earth doped cobalt ferrite bulk materials	10th European Conference on Magnetic Sensors and Actuators, Vienna, Austria,	July 6-9, 2014
8.	<u>I. Astefanoaei, I. Dumitru, A. Stancu</u>	Laser heating and thermal stresses in the core-shell nanowires	20th International Conference on Magnetism, Barcelona, 2015,	July 05, 2015
9.	<u>I. Astefanoaei, I. Dumitru, H. Chiriac, A. Stancu</u>	Study of the optimal thermal dose in the magnetic hyperthermia with low Curie temperature particles	20th International Conference on Magnetism, Barcelona, 2015,	July 05, 2015
10.	<u>D. Cimpoesu, I. Dumitru, A. Stancu</u>	Dynamic FORC measurements in magnetic wires	Amorphous and Nanostructured Magnetic Materials - ANMM 2015, Iasi,	September 21-24, 2015
11.	<u>Vasilica Gafton, Ioan Dumitru, Radu Ciocarlan, Sophie Cervera, Martino Trassinelli, Sébastien Steydli, Stéphane Mace, Ovidiu Florin Caltun, Aurel Pui, Rolf Hempelmann, Dominique Vernhet</u>	Characterization of zinc ferrite nanopowders irradiated by slow highly charged ions	The 8th International Conference On Advanced Materials, ROCAM 2015, Bucuresti,	July 07, 2015
12.	<u>Samir Taloub, Farida Hobar, Iordana</u>	Effect of Magnetic Nanoparticles distribution in	The 8th International Conference On	July 07, 2015

	<u>Astefanoaei, Ioan Dumitru, Ovidiu Florin Caltun</u>	tumoral cell for hyperthermia	Advanced Materials, ROCAM 2015, Bucuresti,	
13.	<u>D. Cimpoesu, I. Dumitru, and A. Stancu</u>	Experimental Frequency Dependent Dynamic FORC In Ferromagnetic Wires	International Symposium on Hysteresis Modeling and Micromagnetics (HMM), Iasi,	May 18, 2015
14.	<u>O. Chiscan, I. Ursachi, I. Dumitru, A. Stancu</u>	Magnetic properties of aligned composite nanofibers produced by electrospinning method	International Symposium on Hysteresis Modeling and Micromagnetics (HMM), Iasi,	May 18, 2015
15.	<u>Iordana Astefanoaei, Ioan Dumitru and Alexandru Stancu</u>	Laser heating of the core- shell nanowires	TIM15-16 Physics Conference, Timisoara, Romania	26 - 28 May 2016
16.	<u>Dorin Cimpoesu, Ioan Dumitru, and Alexandru Stancu</u>	Kinetic effects observed in dynamic FORCs of magnetic wires. Experiment and theoretical description	13th Joint Intermag- MMM Conference, San Diego, USA	January 11-15, 2016
.				
ATLASE, DICTIONARE DE SPECIALITATE				
1				
n				
ALTE PUBLICATII				
1				
n				

Lista achizițiilor realizate în cadrul proiectului

Denumire echipament	Categorie de achiziții* : (numai mijloace fixe)	Valoarea (lei)	Locație
Preamplificator de tensiune Stanford Research Systems - SR 560	Echipamente si aparatura de cercetare	15.480,00	Lab. Magnetism
Laptop Lenovo Yoga 500-14ISK Intel i7	Echipamente si aparatura de cercetare	3.837,97	Lab. Magnetism
Videoproiector BenQ mx525	Echipamente si aparatura de cercetare	1.713,60	Lab. Magnetism
Amplificator bipolar model HSA 4014	Echipamente si aparatura de cercetare	36.800,72	Lab. Magnetism
Ultrabook Lenovo	Echipamente si aparatura de cercetare	5.998,83	Lab. Magnetism
Termometru cu fibra	Echipamente si aparatura de	16.871,81	Lab. Magnetism

optica OPSens PCM-G1-10-100ST-L si accesoriu: Fibra optica OTG-M170-10-62ST, ACC-CON-USB-232 cinvertor USB la serial	cercetare		

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,
Conf. dr. Ioan DUMITRU**

