

## LISTA DE LUCRĂRI ȘTIINȚIFICE – Dr. Mirela AIRIMIOAEI

### A. Lista celor mai relevante lucrări

1. M. Airimioaei, M.T. Buscaglia, M.T. Tredici, U. Anselmi-Tamburini, C. E. Ciomaga, L.P. Curecheriu, A. Bencan, V. Buscaglia, L. Mitoseriu, *SrTiO<sub>3</sub>-BaTiO<sub>3</sub> nanocomposites with temperature independent permittivity and linear tunability fabricated using field-assisted sintering from chemically synthesized powders*, J. Mater. Chem. C, vol. 5, pp. 9028-9036, 2017, (IF=5.256)
2. M. Airimioaei, R. Stanculescu, V. Preutu, C. Ciomaga, N. Horchidan, S. Tascu, D. Lutic A. Pui, L. Mitoseriu, *Effect of particle size and volume fraction of BaTiO<sub>3</sub> powders on the functional properties of BaTiO<sub>3</sub>/poly(epsilon-caprolactone) composites*, Mater. Chem. Phys., vol. 182, pp. 246-255, 2016, (IF=2.101)
3. A. Neagu, L. Curecheriu, M. Airimioaei, A. Cazacu. A. Cernescu, L. Mitoseriu, *Impedance spectroscopy characterization of relaxation mechanisms in gold-chitosan nanocomposites*, Composites Part B, vol. 71, pp. 210-217, 2015, (IF=3.850)
4. M. Airimioaei, M.N. Palamaru, A.R. Iordan, P. Berthet, C. Decorse, L.P. Curecheriu, L. Mitoseriu, *Structural investigations and functional properties of Mg<sub>x</sub>Ni<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> ferrites*, J. Am. Ceram. Soc., vol. 97, pp. 519-526, 2014, (IF=2.610)
5. C.E. Ciomaga, A.M. Neagu, M.V. Pop, M. Airimioaei, S.Tascu, G. Schileo, C. Galassi, L. Mitoseriu, *Feroelectric and dielectric properties of ferrite-ferroelectric ceramic composites*, J. Appl. Phys., vol 113, pp. 0741031-0741037, 2013, (IF=2.185)
6. C.E. Ciomaga, M. Airimioaei, V. Nica, L.M. Hrib, O.F. Caltun, A. R. Iordan, C. Galassi, L. Mitoseriu, M.N. Palamaru, *Preparation and magnetoelectric properties of NiFe<sub>2</sub>O<sub>4</sub>-PZT composites obtained in-situ by gel-combustion method*, J. Eur. Ceram. Soc., vol 32, pp. 3325-3337, 2012, (IF=2.360)
7. M. Airimioaei, C.E. Ciomaga, N. Apostolescu, L. Leontie A.R. Iordan, L. Mitoseriu, M.N. Palamaru, *Synthesis and functional properties of the Ni<sub>1-x</sub>Mn<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> ferrites*, J. Alloys Compd., vol. 509, pp. 8065-8072, 2011, (IF=2.289)
8. C.E. Ciomaga, I. Dumitru, L. Mitoseriu, C. Galassi, A.R. Iordan, M. Airimioaei, M.N. Palamaru, *Magnetoelectric ceramic composites with double-resonant permittivity and permeability in GHz range: A route towards isotropic metamaterials*, Scr. Mater., vol.62, pp. 610-612, 2010. (IF=2.820)
9. A.R. Iordan, M. Airimioaei, M.N. Palamaru, C. Galassi, A.V. Sandu, C.E. Ciomaga, F. Prihor, L. Mitoseriu, A. Ianculescu, *In situ preparation of CoFe<sub>2</sub>O<sub>4</sub>-Pb(ZrTi)O<sub>3</sub> multiferroic composites by gel-combustion technique*, J. Eur. Ceram. Soc., vol.29, pp. 2807-2813, 2009. (IF=2.090)
10. C.E. Ciomaga, C. Galassi, F. Prihor, I. Dumitru, L. Mitoseriu, A.R. Iordan, M. Airimioaei, M.N. Palamaru, *Preparation and properties of the CoFe<sub>2</sub>O<sub>4</sub>-Nb-Pb(Zr,Ti)O<sub>3</sub> multiferroic composites*

*prepared in situ by gel-combustion method*, J. Alloys Compd., vol, 485, pp. 372-378, 2009. (IF=2.135)

## **B. Teza sau tezele de doctorat**

### **Titlul tezei de doctorat**

Instituția de învățământ superior  
**unde a avut loc susținerea publică a tezei de doctorat**

### **Compusi oxidici cu utilizări în tehnicile actuale**

Universitatea “Al. I. Cuza” din Iași,  
Facultatea de Chimie,  
Iași, Romania

Conducătorul științific al tezei de  
**doctorat**

Prof. dr. Mircea Nicolae Palamaru

Data susținerii publice a tezei de  
**doctorat**

28 septembrie 2011

## **C. Brevete de invenție și alte titluri de proprietate intelectuală**

1. C. E. Ciomaga, M. Airimioaei, L. Mitoseriu, N. Lupu, *Compozit magnetoelectric ceramic obținut prin procedeul de preparare in situ, cu proprietăți feromagnetice, magnetostrictive și permitivități de ordinul sutelor*, înregistrat la OSIM nr. A00314/22.05.2017.

## **D. Cărți și capitole în cărți**

## **E. Articole/studii publicate in extenso, în reviste din circuitul internațional**

1. M. Airimioaei, M.T. Buscaglia, M.T. Tredici, U. Anselmi-Tamburini, C. E. Ciomaga, L.P. Curecheriu, A. Bencan, V. Buscaglia, L. Mitoseriu, *SrTiO<sub>3</sub>-BaTiO<sub>3</sub> nanocomposites with temperature independent permittivity and linear tunability fabricated using field-assisted sintering from chemically synthesized powders*, J. Mater. Chem. C, vol. 5, pp. 9028-9036, 2017. (IF=5.256)
2. F. Gheorghiu, M. Simenas, C.E. Ciomaga, M. Airimioaei, V. Kalendra, J. Banys, M. Dobromir, S. Tascu, L. Mitoseriu, *Preparation and structural characterization of Fe-doped BaTiO<sub>3</sub> diluted magnetic ceramics*, Ceram. Int., vol. 43, pp. 9998-10005, 2017. (IF=2.986)
3. F. Gheorghiu, L. Padurariu, M. Airimioaei, L. Curecheriu, C. Ciomaga, C. Padurariu, C. Galassi and L. Mitoseriu, *Porosity-dependent properties of Nb-doped Pb(Zr,Ti)O<sub>3</sub> ceramics*, J. Am. Ceram. Soc., vol. 100, pp. 647-658, 2017. (IF=2.841)
4. M. Airimioaei, R. Stanculescu, V. Preutu, C. Ciomaga, N. Horchidan, S. Tascu, D. Lutic A. Pui, L. Mitoseriu, *Effect of particle size and volume fraction of BaTiO<sub>3</sub> powders on the functional properties of BaTiO<sub>3</sub>/poly(epsilon-caprolactone) composites*, Mater. Chem. Phys., vol. 182, pp. 246-255, 2016. (IF=2.101)

5. C. E. Ciomaga, O. G. Avadanei, I. Dumitru, M. Airimioaei, S. Tascu, F. Tufescu, and L. Mitoseriu, *Engineering magnetoelectric composites towards application as tunable microwave filters*, J. Phys. D: Appl. Phys., vol. 49, pp. 125002(1)- 125002(2), 2016. (IF=2.772)
6. A. Neagu, L. Curecheriu, M. Airimioaei, A. Cazacu. A. Cernescu, L. Mitoseriu, *Impedance spectroscopy characterization of relaxation mechanisms in gold-chitosan nanocomposites*, Composites Part B, vol. 71, pp. 210-217, 2015. (IF=3.850)
7. Z.V. Mocanu, M. Airimioaei, C.E. Ciomaga, L. Curecheriu, F. Tudorache, S. Tascu, A.R. Iordan, N.M. Palamaru, L. Mitoseriu, *Investigation of the functional properties of  $Mg_xNi_{1-x}Fe_2O_4$  ceramics*, J. Mater. Sci., vol. 49, pp. 3276-3286, 2014. (IF=2.371)
8. M. Airimioaei, M.N. Palamaru, A.R. Iordan, P. Berthet, C. Decorse, L.P. Curecheriu, L. Mitoseriu, *Structural investigations and functional properties of  $Mg_xNi_{1-x}Fe_2O_4$  ferrites*, J. Am. Ceram. Soc., vol. 97, pp. 519-526, 2014. (IF=2.610)
9. C.E. Ciomaga, A.M. Neagu, M.V. Pop, M. Airimioaei, S.Tascu, G. Schileo, C. Galassi, L. Mitoseriu, *Ferroelectric and dielectric properties of ferrite-ferroelectric ceramic composites*, J. Appl. Phys., vol 113, pp. 0741031-0741037, 2013. (IF=2.185)
10. C.E. Ciomaga, M. Airimioaei, V. Nica, L.M. Hrib, O.F. Caltun, A. R. Iordan, C. Galassi, L. Mitoseriu, M.N. Palamaru, *Preparation and magnetoelectric properties of  $NiFe_2O_4$ -PZT composites obtained in-situ by gel-combustion method*, J. Eur. Ceram. Soc., vol 32, pp. 3325-3337, 2012. (IF=2.360)
11. M. Airimioaei, C.E. Ciomaga, N. Apostolescu, L. Leontie A.R. Iordan, L. Mitoseriu, M.N. Palamaru, *Synthesis and functional properties of the  $Ni_{1-x}Mn_xFe_2O_4$  ferrites*, J. Alloys Compd., vol. 509, pp. 8065-8072, 2011. (IF=2.289)
12. C.E. Ciomaga, I. Dumitru, L. Mitoseriu, C. Galassi, A.R. Iordan, M. Airimioaei, M.N. Palamaru, *Magnetoelectric ceramic composites with double-resonant permittivity and permeability in GHz range: A route towards isotropic metamaterials*, Scr. Mater., vol.62, pp. 610-612, 2010. (IF=2.820)
13. A.R. Iordan, M. Airimioaei, M.N. Palamaru, C. Galassi, A.V. Sandu, C.E. Ciomaga, F. Prihor, L. Mitoseriu, A. Ianculescu, *In situ preparation of  $CoFe_2O_4$ - $Pb(ZrTi)O_3$  multiferroic composites by gel-combustion technique*, J. Eur. Ceram. Soc., vol.29, pp. 2807-2813, 2009. (IF=2.090)
14. C.E. Ciomaga, C. Galassi, F. Prihor, I. Dumitru, L. Mitoseriu, A.R. Iordan, M. Airimioaei, M.N. Palamaru, *Preparation and properties of the  $CoFe_2O_4$ - $Nb$ - $Pb(Zr,Ti)O_3$  multiferroic composites prepared in situ by gel-combustion method*, J. Alloys Compd., vol. 485, pp. 372-378, 2009. (IF=2.135)

#### **F. Articole științifice publicate *in extenso* în volumele conferințelor:**

1. M. Airimioaei, A.R. Iordan, M.N. Palamaru, C. Ciomaga, A. Sandu, L. Mitoseriu, *Préparation et caractérisation des ferrites de Ni et Mn obtenues par réaction de combustion*, Premier colloque francophone sur les matériaux, les procédés et l'environnement, Volume des papiers, Editura Printech, 2009, ISBN 978-606-521-328-9, pag. 69.

## G. Alte lucrări și contribuții științifice

### G. I. Participări la manifestări științifice internaționale

1. C. E. Ciomaga, O. G. Avadanei, I. Dumitru, M. Airimioaei, F. Tufescu, L. Mitoșeriu, *Effect of Fe doping on the ferroelectric - relaxor crossover in  $BaZr_xTi_{1-x}O_3$  ceramics*, ISAF/ECAPD/PFM Conference, 21 - 25 august 2016, Darmstadt, Germania (*poster*).
2. M. Airimioaei, C.E. Ciomaga, L. Mitoșeriu, *Effect of magnostriptive  $CoFe_2O_4$  phase on ferroelectric  $PbTiO_3$  phase in magnetoelectric composites*, 13<sup>th</sup> European Meeting of Ferroelectricity, 28 iunie - 3 iulie 2015, Porto, Portugalia, (*prezentare orală*).
3. M. Airimioaei, V. Preutu, L. Mitoșeriu, R. Stanculescu, C. Ciomaga, S. Tașcu, *Synthesis and characterization of composites based on Poly- $\epsilon$ -caprolactone and ferroelectric nanoparticles*, 13<sup>th</sup> European Meeting of Ferroelectricity, 28 iunie - 3 iulie 2015, Porto, Portugalia (*poster*).
4. M. Airimioaei, M. T. Buscaglia, V. Buscaglia, L. Mitoșeriu, C. E. Ciomaga, L. P. Curecheriu, *Investigation of multifunctional composites prepared by using  $SrTiO_3@BaTiO_3$  core-shell particles as reactive precursors*, The 8th International Conference on Advanced Materials - ROCAM, 7 - 10 iulie 2015, București, România (*prezentare orală*).
5. M. Airimioaei, C.E. Ciomaga, L. Mitoșeriu, *Preparation and functional characterization of  $CoFe_2O_4$ - $PbTiO_3$  magnetoelectric composites*, 14<sup>th</sup> International Conference EUROPEAN CERAMIC SOCIETY, 21 - 25 iunie 2015, Toledo, Spania (*poster*).
6. V. A. Lukacs, M. Airimioaei, C. E. Ciomaga, S. Tascu, L. Mitoșeriu, *Synthesis And Properties Of 1-D Nickel Oxide Structures Produced By Using Natural Fibers As Bio-Templates*, 10<sup>th</sup> International Symposium on Hysteresis Modeling and Micromagnetics, 18 - 20 mai 2015, Iași, România (*poster*).
7. C. E. Ciomaga, M. Airimioaei, P. Postolache, L. Mitoșeriu, *Electric and magnetic properties of particulate ferrite-ferroelectric composites*, 10<sup>th</sup> International Symposium on Hysteresis Modeling and Micromagnetics, 18 - 20 mai 2015, Iași, România (*poster*).
8. C. E. Ciomaga, M. Airimioaei, L. Padurariu, L. Mitoseriu, *Preparation and functional properties of ferroelectric-ferrite composites: Experiment and modeling*, 5th Management Committee Meeting (MCM5) and Meetings of Working of COST IC1208 Action, Bilkent University, 26 - 27 martie 2015, Ankara, Turcia (*prezentare orală*).
9. V. Preutu, R. Stanculescu, M. Airimioaei, L. Mitoșeriu, *Investigation of composites based on Poly- $\epsilon$ -caprolactone and magnetic/ferroelectric nanoparticles*, 10<sup>th</sup> International Conference on Physics of Advanced Materials, Iași, România, 22 - 28 septembrie 2014 (*poster*).
10. C.E. Ciomaga, M. Airimioaei, G. Stoian, M. Deluca, C. Galassi, L. Mitoșeriu, *Effect of reoxidation annealing on electrical properties in ceramic composites*, European Conference on Application of Polar Dielectrics, 7 - 11 iulie 2014, Vilnius, Lituania (*poster*).
11. C. E. Ciomaga, M. Airimioaei, L. P. Curecheriu, M. T. Buscaglia, V. Buscaglia, L. Mitoșeriu, *Dielectric and non-linear properties of  $SrTiO_3@BaTiO_3$  core-shell ceramic*, European Conference on Application of Polar Dielectrics 2014, 7 - 11 iulie 2014, Vilnius, Lituania (*prezentare orală*).
12. C.E. Ciomaga, M. Airimioaei, R. Tanasă, C. Galassi, L. Mitoșeriu, *Study of magnetic and dielectric*

- properties of MnFe<sub>2</sub>O<sub>4</sub>- ferroelectric*, Electroceramics XIV, 16 - 20 iunie 2014, București, România (poster).
13. C.E. Ciomaga, I. Dumitru, M. Airimioaei, C. Galassi, S.B. Balmuș, L. Mitoșeriu, *Impedance spectroscopy analysis at high frequencies of ferroelectric-ferrite*, COST MP0904 Action Showcase, Electroceramics XIV, 16 - 20 iunie 2014, București, România (poster).
  14. C.E. Ciomaga, M. Airimioaei, G. Stoian, I. Lisiecki, M. Deluca, C. Galassi, L. Mitoșeriu, *Structural, microstructural and electrical properties of CNTs ceramic composites*, Electroceramics XIV, 16 - 20 iunie 2014, București, România (prezentare orală).
  15. M. Airimioaei, M. T. Buscaglia, V. Buscaglia, C. E. Ciomaga, L. Mitoseriu, *Multifunctional composites produced from SrTiO<sub>3</sub>@BaTiO<sub>3</sub> core-shell particles*, Closing COST MP0904 SIMUFER Conference, 30 ianuarie – 1 februarie 2014, Genova, Italia (poster).
  16. C. E. Ciomaga, M. Airimioaei, G. Schileo, C. Galassi, L. Mitoșeriu, *Structural, electrical, magnetic and magnetoelectric properties in composite materials*, Closing COST MP0904 SIMUFER Conference, 30 ianuarie – 1 februarie 2014, Genova, Italia (poster).
  17. C.E. Ciomaga, M. Airimioaei, C. Galassi, L. Mitoșeriu, *Synthesis and functional characterization of MnFe<sub>2</sub>O<sub>4</sub>-PZTN magnetoelectric composites*, FEMS EUROMAT, 8 - 13 septembrie 2013, Sevilla, Spania (prezentare orală).
  18. M. Airimioaei, C. E. Ciomaga, C. Galassi, L. Mitoșeriu, *Studies on structural, electrical and magnetic properties of xMnFe<sub>2</sub>O<sub>4</sub>-(1-x)PZTN magnetoelectric composites*, COST SIMUFER Action MPO904 Workshop Advances in Ferroelectrics and Multiferroics, 2 - 3 septembrie 2013, Cracovia, Polonia, (poster).
  19. C. E. Ciomaga, M.V. Pop, L. Padurariu, M. Airimioaei, C. Galassi, L. Mitoșeriu, *Effect of composition on functional properties of ferroelectric-ferrite composite systems*, Joint IEEE, UFFC, EFTF and PFM symposia, 21 - 25 iulie 2013, Praga, Cehia (poster).
  20. Z. V. Mocanu, M. Airimioaei, C. E. Ciomaga, F. Tudorache, L. P. Curecheriu, L. Mitoșeriu, *Preparation, characterization of Mg<sub>x</sub>Ni<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> ferrites and testing as humidity sensors*, Joint Conference COST MPO904 Action „Single-and multiphase ferroics and multiferroics with restricted geometries” & IEEE-ROMSC 2012, 24 - 26 septembrie, Iași, România (poster).
  21. M. Airimioaei, L. Mitoșeriu, P. Nanni, M.T. Buscaglia, V. Buscaglia, *Preparation and characterization of SrTiO<sub>3</sub> nanopowders*, COST MP0904 Action „Single-and multiphase ferroics and multiferroics with restricted geometries” & IEEE-ROMSC 2012, 24 - 26 septembrie 2012, Iași, România (poster).
  22. Z. V. Mocanu, M. Airimioaei, C. E. Ciomaga, F. Tudorache, L. P. Curecheriu, L. Mitoșeriu, *Investigation of electrical properties of Mg<sub>x</sub>Ni<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> spinel ceramics and applications*, ICPAM -9 (9th International Conference on Physics and Advanced Materials), 20 - 23 septembrie 2012, Iași, România (poster).
  23. C. E. Ciomaga, M. Airimioaei, C. Galassi, A. R. Iordan, M. N. Palamaru, L. Mitoșeriu, *Electrical conduction, magnetic and magnetoelectric properties in xNiFe<sub>2</sub>O<sub>4</sub>+(1-x)PZTNb composite systems*, 21st International Symposium on Applications of Ferroelectrics, 11th European Conference on

Applications of Polar Dielectrics, 4th Conference Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials (ISAF ECAPD PFM), 9 - 13 iulie 2012, Aveiro, Portugalia (*prezentare orală*).

24. ZV. Mocanu, M. Airimioaei, AR. Iordan, M N. Palamaru, LP. Curecheriu, L. Mitoşeriu, *Impedance spectroscopy and magnetic investigation of  $Mg_xNi_{1-x}Fe_2O_4$  spinel ceramics*, ISAF-ECAPD-PFM 2012 - 21st International Symposium on Applications of Ferroelectrics, 11th European Conference on Applications of Polar Dielectrics, 4th Conference Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials, (ISAF ECAPD PFM), 9 - 13 iulie 2012, Aveiro, Portugalia (*poster*).
25. C. E. Ciomaga, M. Airimioaei, I. Dumitru, C. Galassi, L. Mitoşeriu, *Studies on Impedance Spectroscopy and magnetic properties of ferrite-ferroelectric ceramic composites*, COST Action: MP0904 Training School Title: First COST MP0904 Training School “Nanostructured oxides: from laboratory research to industrial applications”, 11 – 14 martie 2012, IENI-CNR Genova, Italia (*poster*).
26. C. E. Ciomaga, M. Airimioaei, V. Nica, L.M. Hrib, O.F. Caltun, A. R. Iordan, C. Galassi, L. Mitoşeriu, M. N. Palamaru, *Preparation and magnetoelectric properties of  $NiFe_2O_4$ -PZT ceramic composites*, 5th International Workshop on Amorphous and Nanostructured Magnetic Materials – ANMM 2011, 5 - 7 septembrie 2011, Iaşi, România (*prezentare orală*).
27. C. E Ciomaga, C. Galassi, L Mitoşeriu, M. Airimioaei, A.R. Iordan, M.N. Palamaru, *Comparative study of the functional properties of pure and Nb-doped PZT - $NiFe_2O_4$  magnetoelectric ceramics*, Advances in Applied Physics and Materials Science Congress, 12 - 15 mai 2011, Istanbul Kultur University, Antalya, Turcia (*prezentare orală*).
28. Z.V. Mocanu, M. Airimioaei, A.R. Iordan, M.N. Palamaru, L.P. Curecheriu, V. Nica, P. Postolache, L. Mitoseriu, *Functional properties of  $Mg_xNi_{1-x}Fe_2O_4$  ferrite*, 2nd ERS Meeting of the COST MP0904 Action, 16 - 18 noiembrie 2011, Novi Sad, Serbia (*poster*).
29. M. Airimioaei, A.R. Iordan, M.N. Palamaru, L.P. Curecheriu, V. Nica, P. Postolache, L. Mitoseriu, *Structural investigation and functional properties of  $Mg_xNi_{1-x}Fe_2O_4$  ferrite*, 5th International Workshop on Amorphous and Nanostructured Magnetic Materials, 5 - 7 septembrie 2011, Iaşi, România (*poster*).
30. A.M. Dumitrescu, M. Airimioaei, P. M. Samoilă, M. Vasile, A. R. Iordan, M. N. Palamaru, *Study of catalytic effect of oxidic compounds of  $NiFe_2O_4$  type in processes of chemical degradation*, The 10th International Conference on Colloids and Surfaces Chemistry, Universitatea “Dunărea de Jos” din Galaţi, 9 - 11 iunie 2011, Galaţi, România (*poster*).
31. C.E. Ciomaga, M. Airimioaei, A. R. Iordan, M. N. Palamaru, L. Mitoşeriu, L. Leontie, A.V. Sandu, *The synthesis and the multifunctional characterization of  $Ni_{1-x}Mn_xFe_2O_4$  ferrites*, Syntheses and Methodologies in Inorganic Chemistry, SAMIC 2010, 28 noiembrie - 2 decembrie 2010, Bressanone, Italia (*poster*).
32. C.E. Ciomaga, A. R. Iordan, M. Airimioaei, C. Galassi, L. Mitoşeriu, M. N. Palamaru, *Dielectric and magnetic properties of PZT- $NiFe_2O_4$  composites obtained in-situ by gel-combution method*, Syntheses and Methodologies in Inorganic Chemistry, SAMIC 2010, 28 noiembrie - 2 decembrie 2010, Bressanone, Italia (*poster*).
33. M. Airimioaei, A. R. Iordan, M. N. Palamaru, L. Curecheriu, L. Mitoşeriu, *The preparation and characterization of the Ni-Cu ferrites*, 7th International Conference of Chemical Societies from South-

East European Countries on “Chemistry – Beauty and Application”, 15 - 17 septembrie 2010, București, România (poster).

34. C.E. Ciomaga, A.R. Iordan, M. Airimioaei, C. Galassi, A. Ianculescu, L. Mitoșeriu, M.N. Palamaru, *In-situ preparation and functional properties of PZT-NiFe<sub>2</sub>O<sub>4</sub> magnetoelectric composites*, Electroceramics XII, 13 - 16 iunie 2010, Trondheim, Norvegia (poster).
35. M. Airimioaei, A. R. Iordan, M. N. Palamaru, C. Ciomaga, L. Mitoșeriu, L. Leontie, *The effect of the Mn substitution on the magnetic and electrical properties of Ni ferrite synthesized by a wet chemical method*, International Conference of Applied Sciences, Chemistry and Chemical Engineering, 8 - 11 aprilie 2010, Slănic Moldova, România (poster).
36. C.E. Ciomaga, I. Dumitru, L. Mitoșeriu, C. Galassi, M. Airimioaei, A.R. Iordan, M.N. Palamaru, *Comparative study of the functional properties of CoFe<sub>2</sub>O<sub>4</sub>/PZT multiferroic ceramic composites*, School and Workshop on the Electron Microscopy of Ceramic Materials, 8 - 13 octombrie 2009, Eskisehir, Turcia (poster).
37. M. N. Palamaru, A. R. Iordan, M. Airimioaei, L. Leontie, C. Ciomaga, L. Mitoșeriu, A.V. Sandu, *Optimization of synthesis conditions for obtaining Mn<sub>x</sub>Ni<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> series ferrites: a study of electrical properties*, 4th International Conference on the Environmental Effects of Nanoparticles and Nanomaterials, 6 - 9 septembrie 2009, Viena, Austria (poster).
38. M. Airimioaei, A.R. Iordan, M.N. Palamaru, C. Ciomaga, A. Sandu, L. Mitoșeriu, *Préparation et caractérisation des ferrites de Ni et Mn obtenues par réaction de combustion*, Premier colloque francophone sur les matériaux, les procédés et l'environnement, 2009, Bușteni, România (poster).

## **G. II. Participări la manifestări științifice naționale**

1. A. Maftai, C E. Ciomaga, L.P. Curecheriu, M. Airimioei, N. Horchidan, P. Postolache, L. Mitoseriu, *Studies on structural, electrical and magnetic behavior of Co-Zn ferrite and BaZr<sub>0.15</sub>Ti<sub>0.85</sub>O<sub>3</sub> ferroelectric ceramic composites*, Sesiune de comunicări științifice studențești – FarPhys, 29 octombrie 2016, Iași, România (poster).
2. V. Preutu, R. Stanculescu, M. Airimioaei, L. Mitoseriu, C. Ciomaga, S. Tascu, *Prepararea și investigarea proprietăților compozitelor bazate pe PCL și nanoparticule magnetice/feroelectrice*, Sesiunea de comunicări științifice studențești FARPHYS, 25 octombrie 2014, Iași, România, (poster).
3. C. E. Ciomaga, A. R. Iordan, M. Airimioaei, C. Galassi, L.Mitoșeriu, M. N. Palamaru, *Preparation and functional properties of PZT -NiFe<sub>2</sub>O<sub>4</sub> magnetoelectric composites*, National Conference on Physics, 23-25 septembrie 2010, Iași, România (prezentare orală).
4. M. Airimioaei, C. Ciomaga, N. Apostolescu, L. Leontie, A.R. Iordan, L. Mitoșeriu, M.N. Palamaru, *Synthesis and functional properties of the Ni<sub>1-x</sub>Mn<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> ferrites*, IEEE Student Branch Scientific Meeting 2010, “Alexandru Ioan Cuza” University Iași, 20 decembrie 2010, Iași, România (poster).
5. M. Airimioaei, A. R. Iordan, M. N. Palamaru, L. Mitoșeriu, N.Horchidan, L. Leontie, *Studies on structural and electrical properties of Ni-Mg ferrite*, IEEE ROMSC, 7 - 8 iunie 2010, Iași, România (poster).

6. C. Rîșcanu, M. Airimioaei, A.R. Iordan, M.N. Palamaru, *Synthesis and study of nickel ferrite nanoparticles used for biomedical applications*, IEEE ROMSC, 7 - 8 iunie 2010, Iași, România (poster).
7. T. Slătineanu, M. Airimioaei, M. N. Palamaru, A. R. Iordan, L. Leontie, O. F. Călțun, *Synthesis optimization of  $ZnFe_2O_4$  via combustion method as a function of combustion-complexing agent*, IEEE ROMSC, 6 - 9 iunie 2009, Iași, România (poster).
8. M. Airimioaei, T. Slătineanu, M. N. Palamaru, A. R. Iordan L. Leontie, C. Ciomaga, L. Mitoșeriu, A.V. Sandu, *Study of the influence of the agents of complexing and combustion on properties of  $NiFe_2O_4$  and  $MnFe_2O_4$  ferrites*, IEEE ROMSC, 6 - 9 iunie 2009, Iași, România (poster).
9. A.R. Iordan, M. Airimioaei, F. Prihor, C. Galassi, A.V. Sandu, C.E. Ciomaga, A. Ianculescu, L. Mitoșeriu, M.N. Palamaru, *Preparation of  $CoFe_2O_4$  on PZT-based templates for obtaining in-situ multiferroic composites*, International Conference on Fundamental and Applied Research in Physics FARPhys, 2008, Iași, România (poster).