



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **LILIANA MITOSERIU**
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Nationality **Romanian**
Date of birth **06.04.1961, Falticeni, jud Suceava**
Gender **Female**

Present employment / position **University Full Professor at “Alexandru Ioan Cuza” University of Iasi, Romania**

Work experience

Dates	1.09.2004 – present
Occupation or position held	University Full Professor
Name and address of employer	“ALEXANDRU IOAN CUZA” UNIVERSITY OF IASI, ROMANIA, FACULTY OF PHYSICS
Type of business or sector	Teaching and research activity
Dates	1.04.2005 – 30.12.2006
Occupation or position held	Visiting Professor
Name and address of employer	UNIVERSITY OF GENOVA, ITALY
Type of business or sector	Teaching and research activity
Dates	01.09.1999 - 01.07.2000 and 01.01.2001 - 01.09.2004
Occupation or position held	Associate Professor
Name and address of employer	“ALEXANDRU IOAN CUZA” UNIVERSITY OF IASI, ROMANIA, FACULTY OF PHYSICS
Type of business or sector	Teaching and research activity
Dates	01.01.2001-30.12.2001
Occupation or position held	Post-doc Researcher
Name and address of employer	UNIVERSITY OF AVEIRO, PORTUGAL
Type of business or sector	Research activity
Dates	01.07.2000 - 01.12.2000
Occupation or position held	Post-doc Researcher

Name and address of employer	Institute of Chemistry and Physics Applied to Materials ICPAM-CNR (now Inst. of Energetics & Interphases) Genoa, Italy
Type of business or sector	Research activity
Dates	01.09.1990 - 01.09.1999
Occupation or position held	Assistant, Lecturer
Name and address of employer	"ALEXANDRU IOAN CUZA" UNIVERSITY OF IASI, ROMANIA, FACULTY OF PHYSICS
Type of business or sector	Teaching and research activity
Dates	01.09.1987-01.09.1990
Occupation or position held	Researcher
Name and address of employer	"ALEXANDRU IOAN CUZA" UNIVERSITY OF IASI, ROMANIA, FACULTY OF PHYSICS
Type of business or sector	Research activity
Dates	01.09.1984-01.09.1987
Occupation or position held	High school Physics Teacher
Name and address of employer	Industrial High School Tg. Frumos, Iasi, Romania
Type of business or sector	Undergraduate teaching activity

Education and training

Dates	2005
Title of qualification awarded	PhD in Chemistry for Engineering, degree "Excellent"; Thesis title: <i>Investigation of the role of chemical inhomogeneity and grain size effects towards the relaxor behaviour in perovskite systems</i>
Principal subjects/occupational skills covered	Nanostructured ferroelectric ceramics, grain size effects
Name and type of organisation providing education and training	University of Genoa, Italy
Dates	1997
Title of qualification awarded	PhD in Physics; Thesis title: Study of polarisation process of nonlinear dielectrics with particle structure
Principal subjects/occupational skills covered	Polarisation mechanisms in particulated ferroelectrics, switching properties: experiment and modeling
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University of Iasi, Romania
Dates	1987
Title of qualification awarded	Graduated in Physics (Diploma with honours Series A nr. 74 (score: 10/10) and B.Sc. final exam with score 10/10, first ranking in the country in 1984)
Principal subjects/occupational skills covered	Physics
Name and type of organisation providing education and training	"Alexandru Ioan Cuza" University of Iasi, Romania

Personal skills and competences Solid state Physics and Chemistry: dielectrics, ferroelectrics and multiferroic oxides

Mother tongue(s) Romanian

Foreign languages (1) English, (2) Italian, (3) French**Self-assessment***European level (*)***Understanding****Listening****Reading****Speaking****Spoken interaction****Spoken production****Writing**

(1)	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
(2)	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	B2	Independent user
(3)	B2	Independent user	B2	Independent user	A2	Basic user	A2	Basic user	A2	Basic user

(*) [Common European Framework of Reference for Languages](#)

The grid consists of three broad levels as follows:

- Basic user (levels A1 and A2);
- Independent user (levels B1 and B2);
- Proficient user (levels C1 and C2).

Professional skills and competences**Physics and Chemistry of nanostructured dielectric, ferroelectric and multiferroic oxides****Organisational skills and competences**

Director of the research department of the Faculty of Physics, Director of national grants, Chair of European FP7-ESF-COST Action MP0904, Romanian representative in the Management Committee of COST Actions 525, 539, IC 1208 and MP1308, Leader of the Dielectrics, Ferroelectrics & Multiferroics group at the Faculty of Physics; Director of the Research department - Faculty of Physics (2012-2015); Chair of Electroceramics XIV, Bucharest 2014; Member of International Advisory committee of Electroceramics conferences from 2004 till now, Chair of International Congress of Ceramics ICC2 Verona (2008), Co-Chair of symposium Electric and Magnetic ceramics at International Congress of Ceramics ICC7, Foz do Iguaçu (2018); Co-chair of TOPIC 6. Ceramics for electro-magnetic and optical applications at 14th International European Ceramic Society ECERS Conference Toledo, Spain (2015); Member of the International Scientific Committee of The Tenth Students Meeting SM-2013, Novi Sad, Serbia, of The Eleventh Conference for Young Scientists in Ceramics (2014), Novi Sad, Serbia and Chair of various Workshops, Training schools in Romania and abroad under various EU or international projects.

Teaching activities

Courses, seminars and laboratories of: Electricity and electrotechnics; Electricity and Magnetism; Electrodynamics; Electricity and magnetism for medical applications; Physics of metals and alloys; Polarizable media; Physics of dielectrics; Properties of non-linear dielectrics; Ferroelectrics with discrete structure; Physics and technology of polarized media; Dielectrics; Physics of ferroelectrics and multiferroics, Physics and technology of nanocomposite materials.

Scientific research activity

Ferroelectrics and Multiferroics, Advanced materials: experimental and modeling:
 (a) co-author of 213 ISI papers (Annex I), 7 Romanian patents with ISI index, 10 books / book chapters (6 international); **T=136, A=32.5, P=64.93, I=25.5, C=1001.5**
 b) participation to scientific grants: 28 (21 as director or UAIC coordinator)
 c) ISI citations (excluding self-citations): 5244 (WoS), 6331 (Scopus), >7545 Google Academic; Hirsch factor: h = 41 (WoS), 42 (Scopus), 48 (Google Academic)
 d) 39 invited talks to international conferences.
<https://www.brainmap.ro/liliana-mitoseriu>
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<https://orcid.org/0000-0002-6406-3516>
<https://publons.com/researcher/2869631/liliana-mitoseriu/>
<https://scholar.google.com/citations?hl=ro&user=5Wa5G7IAAAAJ>

- Additional information** ➤ **Editor Journal of European Ceramic Society (Elsevier - Q1 rank): 2021-2025, Member of the scientific board of the Journal "Processing and Application of Ceramics" (Q2-Q3) starting with 2007.**
- **International agreements and active research collaboration** with: IENI-CNR Genoa, Univ. Genoa, LAMIA-INFM Genoa, ISTE-CNR Faenza (Italy), Univ. Osaka (Japan), Univ. Quebec (Canada), Univ. Aveiro (Portugal), Inst. of Physics (Czech Republic), Univ. Vilnius (Lithuania), J. Stefan Inst. (Slovenia), Univ. Pierre & Marie Curie, Paris and Univ. d'Artois, Lens (France); ERASMUS and COST Agreements and active students exchange (more than 18 students exchanges in EU labs for training/research stages);
- **Invitation for lectures & seminars:** Univ. of Genoa, Univ. Aveiro, IENI-CNR Genoa, ISTE-CNR Faenza, Italy, Inst. of Physics, Czech Academy of Prague, UNESP-Inst. de Química, Araraquara, Sao Paulo, Brasil; Univ. Pierre & Marie Curie, Paris and Univ. d'Artois, Lens (France) (level: Master, Doctoral school, post-docs).

Appendices Please attach a selection of journal papers, books, research grants, brevets, etc. relevant for the master program(s) under assessment

Annex I. List of publications in ISI journals

2025

- Exploring grain size and composition effects on the functional properties of BaGexTi1-xO3 ceramics, N. Horchidan, V.A. Lukacs, M. Asandulesa, G. Stoian, C.E. Ciomaga, L. Mitoseriu, Journal of the European Ceramic Society 45, 116997 (2025)
- L. Mitoseriu, V.A. Lukacs, L. Padurariu, C.E. Ciomaga, F. Gheorghiu, N. Horchidan, D. Giuranno, Emergent electrical properties in metal-ceramic composites: a critical review, Ceramics International 51, 4345-43487 (2025)
- E.M. Soare, C.A. Stanciu, R.E. Patru, V.A. Surdu, N. Horchidan, L. Mitoseriu, I. Pintilie, B.S. Vasile, A.I. Nicoara, R.D. Trusca, A.C. Ianculescu, Composition-dependent structural, microstructural and functional characteristics of fine-grained BaTi1-xHfxO3 ceramics consolidated by Spark Plasma Sintering, J. European Ceramic Society 45, 117600 (2025)
- E.M. Soare, C.A. Stanciu, R.E. Patru, V.A. Surdu, L. Padurariu, N. Horchidan, A.I. Nicoara, L. Trupina, B.S. Vasile, R.D. Trusca, L. Mitoseriu, A.C. Ianculescu, Grain size effects in BaTi0.90Hf0.10O3 ceramics with phase coexistence: the influence of nanostructuring and of the internal stress on the functional properties, J. Materials Research & Technology 38, 5389-5408 (2025)
- R.S. Stirbu, L. Mitoseriu, Computational study regarding the poling process and its influence on the effective piezoelectric response of porous piezoceramics, Materials Science and Engineering B 322, 118636 (2025)

2024

- Influence of sintering temperature on the electrical properties of SrTiO3-BaZrTiO3 ceramics for energy storage applications, I. Turcan, L.P. Curecheriu, G. Stoian, I. Mihaila, C.E. Ciomaga, L. Mitoseriu, Ceramics International, <https://doi.org/10.1016/j.ceramint.2024.03.303>: Q1
- Cuboidal vs equiaxed: The role of nanopowder assembly during BaTiO3 ceramic pressing step, V.A. Lukacs, R.S. Stirbu, O.A. Condurache, L.P. Curecheriu, M. Airimioaei, C.E. Ciomaga, G. Stoian, G. Caruntu, L. Mitoseriu, M.T. Buscaglia, Journal of Materials Science & Technology 189 (2024) 13-24: Q1
- Modeling of hysteretic response of porous piezo/ferroelectric ceramics, R.S. Stirbu, L. Mitoseriu, Computational Materials Science 232 (2024) 112633: Q1

2023

- Dielectric, ferroelectric and electrocaloric properties of 1%Eu - doped BaZrTi1-yO3 ceramics, L. Curecheriu, T. Sandu, O. Condurache, G. Canu, C. Costa, M.T. Buscaglia, M. Asandulesa, J. Banyas, V. Buscaglia, L. Mitoseriu, Materials Research Bulletin, 157, 112034 (2023), IF: 5.6 (Q2)
- Grain size-driven effect on the functional properties in Ba0.6Sr0.4TiO3 ceramics consolidated by spark plasma sintering, R.E. Patru, C.A. Stanciu, E.M. Soare, V.A. Surdu, R.D. Truşca, A.I. Nicoara, B.S. Vasile, G. Boni, L. Amarande, N. Horchidan, L.P. Curecheriu, L. Mitoseriu, L. Pintilie, I. Pintilie, A.C. Ianculescu, Journal of the European Ceramic Society 43, 3250-3265 (2023): Q1
- Influence of Ferroelectric Filler Size and Clustering on the Electrical Properties of (Ag-BaTiO3)-PVDF Sub-Percolative Hybrid Composites, L. Padurariu, N. Horchidan, C.E. Ciomaga, L.P. Curecheriu, V.A. Lukacs, R.S. Stirbu, G. Stoian, M. Botea, M. Florea, V.A. Maraloiu, L. Pintilie, A. Rotaru, L. Mitoseriu, ACS Appl. Mater. Interfaces 15, 5744-5759 (2023): Q1
- Role of Microstructures in the Dielectric Properties of PVDF-Based Nanocomposites Containing High-Permittivity Fillers for Energy Storage, L. Padurariu, E. Brunengo, G. Canu, L.P. Curecheriu, L. Conzatti, M.T. Buscaglia, P. Stagnaro, L. Mitoseriu, V. Buscaglia, ACS Applied Materials & Interfaces 15 (10), 13535-13544 (2023): Q1
- Analysis of local vs. macroscopic properties of porous BaTiO3 ceramics based on 3D reconstructed ceramic microstructures, L. Padurariu, F.F. Chamasemani, R. Brunner, L.P. Curecheriu, V.A. Lukacs, R.S. Stirbu, C.E. Ciomaga, L. Mitoseriu, Acta Materialia 255, 119084 (2023): Q1

2022

9. Phase coexistence and grain size effects on the functional properties of BaTiO₃ ceramics V.A. Lukacs, M. Airimioaei, L. Padurariu, L.P. Curecheriu, C.E. Ciomaga, A. Bencan, G. Drazic, M. Avakian, J.L. Jones, G. Stoian, M. Deluca, R. Brunner, A. Rotaru, L. Mitoseriu, Journal of the European Ceramic Society 42, 2230–2247 (2022); IF: 6.364 (Q1)
10. Increasing Permittivity and Mechanical Harvesting Response of PVDF-Based Flexible Composites by Using Ag Nanoparticles onto BaTiO₃ Nanofillers, N. Horchidan, C.E. Ciomaga, L.P. Curecheriu, G. Stoian, M. Botea, M. Florea, V.A. Maraloiu, L. Pintilie, F.M. Tufescu, V. Tiron, A. Rotaru and L. Mitoseriu, Nanomaterials 12, 934 (2022), IF: 5.719 (Q1)
11. Mesoscale Models for Describing the Formation of Anisotropic Porosity and Strain-Stress Distributions during the Pressing Step in Electroceramics, R.S. Stirbu, L. Padurariu, F.F. Chamasemani, R. Brunner and L. Mitoseriu, Materials 15(19), 6839 (2022), IF: 3.748 (Q1)
12. BaTiO₃ nanocubes-Gelatin composites for piezoelectric harvesting: Modeling and experimental study, C.E. Ciomaga, N. Horchidan, L. Padurariu, R.S. Stirbu, V. Tiron, F.M. Tufescu, I. Topala, O. Condurache, M. Botea, I. Pintilie, L. Pintilie, A. Rotaru, G. Caruntu, L. Mitoseriu, Ceramics International 48, 25880-25893 (2022), IF 5.532 (Q1)
13. Optimization of Processing Steps for Superior Functional Properties of (Ba, Ca)(Zr, Ti)O₃ Ceramics, C.E. Ciomaga, L.P. Curecheriu, V.A. Lukacs, N. Horchidan, F. Doroftei, R. Valois, M. L'heureux, M.E. Chambrier, L. Mitoseriu, Materials 15, 8809 (2022): Q1

2021

14. Modifications of structural, dielectric and ferroelectric properties induced by porosity in BaTiO₃ ceramics with phase coexistence, L. Padurariu, L.P. Curecheriu, C.E. Ciomaga, M. Airimioaei, N. Horchidan, C. Cioclea, V.A. Lukacs, R.S. Stirbu, L. Mitoseriu, Journal of Alloys and Compounds 889 161699 (2021): Q1
15. Preparation and properties of porous BaTiO₃ nanostructured ceramics produced from cuboidal nanocrystals, V.A. Lukacs, G. Caruntu, O. Condurache, C.E. Ciomaga, L.P. Curecheriu, L. Padurariu, M. Ignat, M. Airimioaei, G. Stoian, A. Rotaru, Liliana Mitoseriu, Ceram. Int. Volume: 47, Issue 13, Pages 18105-18115 (2021) (Q1)
16. Dipolar glass state in BaCe_{0.3}Ti_{0.7}O₃ perovskite solid solutions, S. Svirskas, Sarunas; D. Adamchuk, R. Grigalaitis, D. Jablonskas, J. Macutkevicius, G. Canu, M.T. Buscaglia, V. Buscaglia, L. Curecheriu, Liliana Mitoseriu; J. Banys, J. Alloys & Compounds Volume: 85, Article Number: 155755 (2021)
17. Preparation and functional properties of BaTiO₃-BaGeO₃ ceramics, N. Horchidan, L. Curecheriu, C.E. Ciomaga, N. Lupu, Liliana Mitoseriu, IEEE Trans. Ultrason. Ferroelectr. Freq. Volume: 68, Issue: 2, Pages: 279-287 (2021)

2020

18. Four-fold multifunctional properties in self-organized layered ferrite, L. Curecheriu, C. Harnagea, M.T. Buscaglia, I. Pallecchi, B.S. Vasile, V.A. Surdu, A.C. Ianculescu, A. Pignolet, F. Rosei, Liliana Mitoseriu; V. Buscaglia, Ceram. Int. Volume: 46, Issue: 18, Pages:28621-28630 Part: A (2020)
19. Improved dielectric properties of poly(vinylidene fluoride)-BaTiO₃ composites by solvent-free processing, E. Brunengo, L. Conzatti, I. Schizzi, M.T. Buscaglia, G. Canu, L. Curecheriu, C. Costa, M. Castellano, Liliana Mitoseriu, P. Stagnaro, V. Buscaglia, J. Appl. Polym. Sci. Volume: 138 Issue:12 Article Number: e50049, Early Access: OCT 2020 (2021)
20. Room temperature phase superposition as origin of enhanced functional properties in BaTiO₃ - based ceramics, N. Horchidan, L. Padurariu, C.E. Ciomaga, L. Curecheriu, M. Airimioaei, F. Doroftei, F.M. Tufescu, Liliana Mitoseriu, J. European Ceramic Society Volume:40 Issue: 4 Pages:1258-1268 (2020)
21. Nonlinear dielectric properties of BaTiO₃ - Silver composites: The role of microstructure, V.A. Lukacs, I. Turcan, L. Padurariu, L. Curecheriu, A. Cernescu, G. Stoian, C.E. Ciomaga, F.M. Tufescu, N. Lupu, Liliana Mitoseriu, J. Alloys & Compounds Volume: 817 Article Number: 153336 (2020)
22. Biomorphic tubular nickel oxide structures: Effect of the synthesis parameters on their structural and functional properties, surface-related applications, M. Airimioaei, V.A. Lukacs, I. Lisiecki, P. Beaunier, J. Blanchard, D. Lutic, S. Tascu, P. Postolache, C.E. Ciomaga, M. Olariu, Liliana Mitoseriu, J. Alloys & Compounds Volume: 816 Article Number: 152543 (2020)
23. PVDF-ferrite composites with dual magneto-piezoelectric response for flexible electronics applications: synthesis and functional properties, F. Gheorghiu, R. Stanculescu, L. Curecheriu, E. Brunengo, P. Stagnaro, V. Tiron, P. Postolache, M.T. Buscaglia, Liliana Mitoseriu, J. Mater. Sci. Volume:5, Issue: 9 Pages: 3926-3939 (2020)
24. Structural and functional properties of BaTiO₃ porous ceramics produced by using pollen as sacrificial template, V.A. Lukacs, R. Stanculescu, L. Curecheriu, C.E. Ciomaga, N. Horchidan, C. Cioclea, Liliana Mitoseriu, Ceram. Int. Volume:46 , Pages:523-530 (2020)

2019

25. Comparative study of magnetoelectric BaTiO₃-Co_{0.8}Zn_{0.2}Fe₂O₄ bi-tunable ceramics sintered by Spark Plasma Sintering and classical method, C.E. Ciomaga, Al. Guzu, M. Airimioaei, L.P. Curecheriu, V.A. Lukacs, O.G. Avadanei, G. Stoian, M. Grigoras, N. Lupu, M. Asandulesa, Liliana Mitoseriu, Ceram. Int. Volume: 45 Issue: 18, Pages: 24168-24175 Part: A (2019)
26. Distributions of relaxation times in relaxor ferroelectric Ba(Ti_{0.8}Ce_{0.2})O₃, D. Adamchuk, R. Grigalaitis, S. Svirskas, J. Macutkevicius, E. Palaimiene, J. Banys, Liliana Mitoseriu, G. Canu, M.T. Buscaglia, V. Buscaglia, Conference: 6th International Workshop on Relaxor Ferroelectrics (IWRF) Vancouver, CANADA 2018, Ferroelectrics Volume:55, Issue: 1 Special Issue: SI, Pages: 103-110 (2019)
27. Structural changes of cerium doped copper ferrites during sintering process and magneto-electrical properties assessment, T. Roman, A. Pui, A.V. Lukacs, N. Cimpoesu, S. Lupescu, A.I. Borhan, K. Kordatos, A. Ntziouni, P. Postolache, M. Zaharia, S. Stanciu, Liliana Mitoseriu, Ceram. Int. Volume:45 , Pages: 17243-17251 (2019)
28. Functional properties of randomly mixed and layered BaTiO₃-CoFe₂O₄ ceramic composites close to the percolation limit, A. Guzu, C.E. Ciomaga, M. Airimioaei, L. Padurariu, L.P. Curecheriu, I. Dumitru, Gheorghiu, F. Gheorghiu, G. Stoian, M. Grigoras, N. Lupu, M. Asandulesa, Liliana Mitoseriu, J. Alloys & Compounds Volume: 796 Pages: 55-64 (2019) Times Cited: 5, ISI: 4.650
29. Guest Editorial, Ferroelectrics Volume 545, Pages V-VI (2019)
30. Ferroelectric order driven Eu³⁺ photoluminescence in BaZr_xTi_{1-x}O₃ perovskite, G. Canu, G. Bottaro, M.T. Buscaglia, C. Costa, O. Condurache, L. Curecheriu, L. Mitoseriu, V. Buscaglia, L. Armelao, Scientific Reports Volume 9, Article number 6441 (2019)
31. Functional properties of percolative CoFe₂O₄-PbTiO₃ composite, C.E. Ciomaga, M. Airimioaei, I. Turcan, A.V. Lukacs, S. Tascu, M. Grigoras, N. Lupu, J. Banys, Liliana Mitoseriu, J. Alloys & Compounds Volume 775, Pages 90-99 (2019)

2018

32. Preparation and functional characterization of magnetoelectric Ba(Ti_{1-x}Fe_x)O_{3-x/2} ceramics. Application for a miniaturized resonator antenna, F. Gheorghiu, C.E. Ciomaga, M. Simenas, M. Airimioaei, S. Qiao, S. Tascu, V. Kalendra, J. Banys, O.G. Avadanei, Liliana Mitoseriu, Ceramics International Volume 44, Issue 17, Pages 20862-20870 (2018)
33. Microstructure and dielectric properties of Ag-BaTiO₃ composite ceramics, I. Turcan, V.A. Lukacs, L. Curecheriu, L. Padurariu, C.E. Ciomaga, M. Airimioaei, G. Stoian, N. Lupu, Liliana Mitoseriu, J. European Ceramic Society, Volume 38, Issue 16, Pages 5420-5429 (2018)

34. Magnetic properties of multilayer BaTiO₃/NiFe₂O₄ thin films prepared by solution deposition technique, B. Bajac, M. Milanovic, Z. Cvejic, A. Ianculescu, P. Postolache, Liliana Mitoseriu, V.V. Srdic, *Ceram. Int.*, Volume 44, Issue 13, Pages 15965-15971 (2018)
35. Structure-property correlations and origin of relaxor behaviour in BaCe_xTi_{1-x}O₃, G. Canu, G. Confalonieri, M. Deluca, L. Curecheriu, M.T. Buscaglia, M. Asandulesa, N. Horchidan, M. Dapiaggi, Liliana Mitoseriu, V. Buscaglia, *Acta Materialia*, Volume 152, Pages 258-268 (2018)
36. Multiferroic and magnetoelectric properties of Pb_{0.99}[Zr_{0.45}Ti_{0.47}(Ni_{1/3}Sb_{2/3})(0.08)] O₃-CoFe₂O₄ multilayer composites fabricated by tape casting, G. Schileo, C. Pascual-Gonzalez, M. Alguero, I.M. Reaney, P. Postolache, Liliana Mitoseriu, K. Reichmann, M. Venet, A. Feteira, J. European Ceramics Society Volume 38, Issue 4, Pages 1473-1478 (2018)
37. Field induced metastable ferroelectric phase in Pb_{0.97}La_{0.03}(Zr_{0.90}Ti_{0.10})(Zr_{0.90}Ti_{0.10})(0.9925)O₃ ceramics, I.V. Ciuchi, C.C. Chung, C.M. Fancher, C. Capiani, J.L. Jones, Liliana Mitoseriu, C. Galassi, *J. European Ceramics Society*, Volume 38, Issue 4, Pages 1479-1487 (2018)

2017

38. Field-induced antiferroelectric to ferroelectric transitions in (Pb_{1-x}La_x)(Zr_{0.90}Ti_{0.10})(1-x/4)O₃ investigated by in situ X-ray diffraction, I.V. Ciuchi, C.C. Chung, C.M. Fancher, J. Guerrier, J.S. Forrester, J.L. Jones, Liliana Mitoseriu, C. Galassi, *J. European Ceramics Society*, Volume 37, Issue 15, Pages 4631-4636 (2017)
39. Modeling of cross-talk phenomena in thin film ferroelectric nanocapacitor arrays by finite element method combined with Monte Carlo calculations, L. Padurariu and Liliana Mitoseriu, *J. Applied Physics*, Volume 122, Issue 14, No. 144106 (2017)
40. SrTiO₃-BaTiO₃ nanocomposites with temperature independent permittivity and linear tunability fabricated using field-assisted sintering from chemically synthesized powders, M. Airimioaei, M.T. Buscaglia, I. Tredici, U. Anselmi-Tamburini, C.E. Ciomaga, L. Curecheriu, A. Bencan, V. Buscaglia, Liliana Mitoseriu, *J. Materials Chemistry C*, Volume 5, Issue 35, Pages 9028-9036 (2017)
41. Preparation and structural characterization of Fe-doped BaTiO₃ diluted magnetic ceramics, F. Gheorghiu, M. Simenas, C.E. Ciomaga, M. Airimioaei, V. Kalendra, J. Banys, M. Dobromir, S. Tascu, Liliana Mitoseriu, *Ceram. Int.* Volume 43, Issue 13, Pages 9998-10005 (2017)
42. Frequency mixing application based on BaTiO₃ ceramic: Design and functional characterization, M.V. Pop, N. Horchidan, A.C. Ianculescu, Liliana Mitoseriu, *International Journal of Applied Ceramic Technology*, Volume 14, Issue 4, Pages 593-603 (2017)
43. Dielectric and phonon spectroscopy of Nb-doped Pb(Zr_{1-y}Ti_y)O₃-CoFe₂O₄ composites, A. Sakanas, D. Nuzhnyy, R. Grigalaitis, J. Banys, F. Borodavka, S. Kamba, C.E. Ciomaga, Liliana Mitoseriu, *J. Applied Physics*, Volume 121, Issue 21, No. 214101 (2017)
44. Role of the pore interconnectivity on the dielectric, switching and tunability properties of PZTN ceramics, C. Padurariu, L. Padurariu, L. Curecheriu, C. Ciomaga, N. Horchidan, C. Galassi, Liliana Mitoseriu, *Ceram. Int.* Volume 43, Issue 7, Pages 5767-5773 (2017)
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 - cap. 5, " BaTiO_3 nanopowders and nanocrystalline ceramics: II. Ceramics", Liliana Mitoseriu, V. Buscaglia, M.T. Buscaglia, M. Viviani, P. Nanni, p. 119-144
7. "CERAMICI AVANSATE CU APLICATII IN MICROELECTRONICA: Sisteme micro- si nanostructurate pe baza de titanat de bariu", A. Ianculescu, L. Mitoseriu, Ed. Politehnica Press, 2007, ISBN 978-973-7838-37-7, 205 pag (in Romanian)
8. „ $\text{Ba}(\text{Ti,Zr})\text{O}_3$ – Functional materials: from nanopowders to bulk ceramics”, A. Ianculescu, Liliana Mitoseriu, in: Advances in Nanotechnology, Vol. 3, 2010, Nova Science Publ. ISBN: 978-1-61668-161-6; $\text{Ba}(\text{Ti,Zr})\text{O}_3$ - Functional Materials: From Nanopowders To Bulk Ceramics, Ianculescu, A.; Liliana Mitoseriu, Edited By: Bartul, Z; Trenor, J, Advances In Nanotechnology, Book Series: Advances In Nanotechnology Vol. 3, Pages: 59-120 (2010); $\text{Ba}(\text{Ti,Zr})\text{O}_3$ -Functional Materials: From Nanopowders to Bulk Ceramics, A. Ianculescu, Liliana Mitoseriu, $\text{Ba}(\text{Ti,Zr})\text{O}_3$ -Functional Materials: From Nanopowders to Bulk Ceramics Book Series: Nanotechnology Science and Technology Pages: 1-99 Published: 2010, Publisher: NOVA SCIENCE PUBLISHERS, INC, 400 OSER AVE, STE 1600, HAUPPAUGE, NY 11788-3635 USA; State of the art for the $\text{BaTiO}_{(3)}\text{-BaZrO}_{(3)}$ System, Ianculescu, A.; Liliana Mitoseriu, Book Author(s): A. Ianculescu, Liliana Mitoseriu, $\text{Ba}(\text{Ti,Zr})\text{O}_3$ -functional materials: from nanopowders to bulk ceramics, Book Series: NANOTECHNOLOGY SCIENCE AND TECHNOLOGY Published: 2010; Preparation and Characterization of $\text{Ba}(\text{Ti,Zr})\text{O}_3$ nanopowders: Influence of the processing method on the structural and morphological properties, A. Ianculescu, Liliana Mitoseriu, Book Author(s): A. Ianculescu, Liliana Mitoseriu, $\text{Ba}(\text{Ti,Zr})\text{O}_3$ -functional materials: from nanopowders to bulk ceramics Book Series: Nanotechnology Science and Technology Pages: 9-22 (2010)
9. New Broadband Button-Shaped Antenna on Innovative Magneto-Dielectric Material for Wearable Applications, M. Aldrigo, D.C. Bianchini, A. Costanzo, D. Masotti, C. Galassi, Liliana Mitoseriu, Book Group Author(s): IEEE, Conference: 42nd European Microwave Conference (EuMC) Location: Amsterdam, Netherlands Date: OCT 28-NOV 02, 2012, Sponsor(s): APS; European Microwave Assoc; IEEE; MTT S; Horizon House 2012 42ND European Microwave Conference (EUMC) Book Series: European Microwave Conference Pages: 723-726 (2012)
10. "Nanoscale Ferroelectrics and Multiferroics Key Processing and Characterization Issues, and Nanoscale Effects", Edited by Miguel Alguero, J. Marty Gregg, Liliana Mitoseriu, Ed. Wiley, Publ. ISBN 978-1-118-93575-0, Vol I-II, 2016 and author of chapters:
 - Chapter 15 "Nanostructured Barium Titanate Ceramics : Intrinsic versus Extrinsic Size Effects, Liliana Mitoseriu, L.P. Curecheriu
 - Chapter 18 "Local Field Engineering Approach for Tuning Dielectric and Ferroelectric Properties in Nanostructured Ferroelectrics and Composites, Liliana Mitoseriu, L. Padurariu.
11. C.E. Ciomaga and Liliana Mitoseriu, **Chapter 21 Ferroelectric Perovskite-Spinel Ferrite Ceramics**, (26 pag.) in *Magnetic, Ferroelectric, and Multiferroic Metal Oxides* (Eds. B. Stojanovic, G. Korotcenkov), Elsevier, ISBN 978-0-12-811180-2 (2017)
12. C. Hutanu, V.A. Lukacs and L. Mitoseriu, Chapter "Electroceramics: Modelling of sintering, microstructure evolution and functional properties", in „Encyclopedia of Materials: Technical Ceramics and Glasses" Vol. 3, Pages 295-310 (2021), Reference Module in Materials Science and Materials Engineering, Elsevier; Book ISBN: 9780128185421, Published Date: 22nd March 2021 (eds. M. J. Pomeroy, F. Cambier, C. Galassi, S. Hampshire, A. Leriche); DOI: 10.1016/B978-0-12-803581-8.12078-8

Annex III. Invited lectures and talks to international meetings

1. "Double Barrier Schottky theory for PTCR effect in n-doped BaTiO_3 ceramics", Liliana Mitoseriu, M. Viviani, A.S. Siri, P. Nanni, COST 525 European Concerted Action on Advanced Electroceramics: Grain Boundary Engineering – Dielectrics and Semiconductors Working Group Meeting, Genoa, Italy, May 11-14, 2002 (invited talk)
2. "Tailoring of perovskite-like oxides powders: effects on microstructure and properties", M.T. Buscaglia, V. Buscaglia, Liliana Mitoseriu, P. Nanni, A. Testino, M. Viviani, Taller latino-americano de Materiales Ferroelectricos – La Habana, Cuba 24-26 June 2002 (invited talk)
3. "Tailoring of perovskite-like oxides powders throughout a continuous precipitation process", M.T. Buscaglia, V. Buscaglia, Liliana Mitoseriu, P. Nanni, A. Testino, M. Viviani, Synthesis and Methodologies in Inorganic Chemistry, Trends in Nanoscience, Bressanone, Italy 8-11 Dec. 2002 (invited talk)
4. "High density nanocrystalline BaTiO_3 : preparation and characterisation", M.T. Buscaglia, V. Buscaglia, C. Harnagea, Liliana Mitoseriu, P. Nanni, A. Testino, and M. Viviani, Electrocerámica VI – Castellón (Spain), June 19th-21st, 2003 (invited talk)
5. " BaTiO_3 : from nanopowders to dense nanocrystalline ceramics", M.T. Buscaglia, V. Buscaglia, Liliana Mitoseriu, P. Nanni, A. Testino, M. Viviani, Indianapolis IN, USA, 106th Annual Meeting and Exposition to The American Ceramic Society, 18 - 21 April 2004 (invited talk)
6. "Grain size and grain boundary dependent phenomena in BaTiO_3 ceramics", Liliana Mitoseriu, 3rd Brasil-MRS Meeting SBPMat, Foz do Iguacu, Oct. 10-13 2004 (invited talk)
7. "Preparation of high-density nanocrystalline BaTiO_3 ceramics sintered from tailored nanopowders", P. Nanni, A. Testino, M.T. Buscaglia, V. Buscaglia, Liliana Mitoseriu, M. Viviani and R.V. Calderone, 3rd Brasil-MRS Meeting SBPMat, Foz do Iguacu, Oct. 10-13 2004 (invited talk)
8. "Preparation, characterisation and applications of nanocrystalline BaTiO_3 ceramics", P. Nanni, A. Testino, M.T. Buscaglia, V. Buscaglia, Liliana Mitoseriu, M. Viviani and R.V. Calderone, Jornadas de Ciencia Aplicada a la Industria Cerámica – Universitat Jaume I, Castellón (Spain), July 4th-6th, 2005 (invited talk)
9. "Grain size and grain boundary phenomena in BaTiO_3 dense nanocrystalline ceramics: towards the superparaelectric state", V. Buscaglia, M.T. Buscaglia, M. Viviani, Liliana Mitoseriu, A. Testino, P. Nanni, Z. Zhao, M. Nygren, 11th International Meeting on Ferroelectricity IMF11, Sept. 5-9, 2005, Foz do Iguacu, Argentina / Brazil (invited talk)
10. "Magnetolectric phenomena in single phase and composite systems", Liliana Mitoseriu, IEEE Magnetic Society Chapter of the Romania Section IEEE-ROMSC, 24-26 Oct. 2005, Iasi, Romania (opening lecture)
11. "Preparation of perovskites nanopowders and sintering to dense nanocrystalline ceramics", P. Nanni, M.T. Buscaglia, V. Buscaglia and Liliana Mitoseriu, 21th Electrochemical Society Meeting - Nanostructured Metal Oxides: Processing and Applications, Cancun (Mexico), October 29th - November 3rd, 2006 (invited lecture)

12. Preparation and characterisation of nanocrystalline BaTiO₃ and SrTiO₃ ceramics obtained from tailored nanopowders", P. Nanni, M.T. Buscaglia, V. Buscaglia, Liliana Mitoseriu and M. Viviani, IV Congreso Peruano de Ciencia y Tecnología de Materiales, Lima (Perù), November 12th – 15th, 2006 (invited talk)
13. "Core-Shell Composite Particles: A Versatile Approach to the Synthesis of Dielectric and Ferroelectric Materials", V. Buscaglia, M.T. Buscaglia, M. Viviani, Liliana Mitoseriu, R. Alessio, P. Nanni, ACERS 2007, Symposium on Advanced Dielectric, Piezoelectric and Ferroelectric Materials, Cocoa Beach, Jan 2007 (Invited talk)
14. "Tailoring of perovskite oxides nanopowders: particles size and morphology control to produce nanocrystalline dense ceramics", M.T. Buscaglia, V. Buscaglia, M. Viviani, Liliana Mitoseriu and P. Nanni, IEEE Magnetic Society Chapter of the Romania Section IEEE-ROMSC, May 2007 Iasi, Romania (invited talk)
15. "Tailoring of perovskite oxide nanopowders and sintering to nanocrystalline dense ceramics", P. Nanni, M.T. Buscaglia, R.V. Calderone, V. Buscaglia, Liliana Mitoseriu and M. Viviani, 6th International Congress in Materials Science & Engineering Iasi (Romania), May 24th-27th, 2007 (invited lecture)
16. "Ferroelectric-magnetic composites: intrinsic and extrinsic interplay contributions to the functional properties", Liliana Mitoseriu, 10th International Conference and Exhibition of the European Ceramic Society, June 17 - 21, 2007, Berlin (invited talk)
17. "Synthesis and Tailoring of Perovskite Oxides by a Precipitation Reaction: from Particles Size and Morphology Control to Nanocrystalline Dense Ceramics", P. Nanni, M. Buscaglia, V. Buscaglia, Liliana Mitoseriu, M. Viviani, 10th International Conference and Exhibition of the European Ceramic Society, June 17 - 21, 2007, Berlin (invited talk)
18. "Perovskite-like oxides: sintering of pure and core-shell tailored nanosized powders to dense nanocrystalline ceramics", M.T. Buscaglia, V. Buscaglia, M. Viviani, Liliana Mitoseriu and P. Nanni, 11th European Meeting on Ferroelectricity-EMF, Bled (Slovenia) September 2nd – 7th 2007, (invited lecture)
19. "Tailoring of perovskite oxides nanopowders: particles size and morphology control to produce nanocrystalline dense ceramics", M.T. Buscaglia, V. Buscaglia, M. Viviani, Liliana Mitoseriu and P. Nanni, International Conference on Advanced Materials and Composites, Trivandrum (India) October 24-26th, 2007 (invited lecture)
20. "Tailoring of perovskite oxides nanopowders: particles size and morphology control to obtain nanocrystalline dense ceramics", P. Nanni, M.T. Buscaglia, V. Buscaglia, Liliana Mitoseriu, 32nd International Cocoa Beach Conference & Exposition on Advanced Ceramics and Composites Daytona Beach (USA) January 27th – February 1st, 2008 (invited lecture)
21. "First order reversal curves diagrams for describing ferroelectric switching characteristics: anisotropic porosity-related bias and grain size effects", Liliana Mitoseriu, L. Stoleriu, A. Stancu, C. Galassi, V. Buscaglia, COST 539 Workshop - Fabrication, Properties & Applications of Electroceramic Nanostructures, Genoa, June 26th-28th, 2008 (invited lecture)
22. "First-order reversal curves diagrams for describing ferroelectric switching characteristics", Liliana Mitoseriu, L. Stoleriu, A. Stancu, C. Galassi, V. Buscaglia, 2nd International Congress on Ceramics ICC2 Verona, Italy 29 June-4th July, 2008 (invited lecture)
23. "In-situ preparation of multiferroic magnetoelectric nanocomposites", Liliana Mitoseriu, L.P. Curecheriu, F. Prihor, V. Buscaglia, P. Nanni, FARPHYS 2008, Iasi (invited lecture)
24. "In-situ preparation of multiferroic composite with core-shell structures", L. P. Curecheriu, M.T. Buscaglia, V. Buscaglia, A. Ianculescu, P. Postolache, Liliana Mitoseriu, P. Nanni, 6th Workshop "Advanced Functional Characterization of Nanostructured Materials", 24 - 25 February, 2009, Madrid, Spain
25. "Intrinsic - extrinsic interplay contributions to the functional properties of magnetoelectric composites", Liliana Mitoseriu, The First Workshop: "Nanostructured ceramics and nanocomposites – Challenges and perspectives"; The Second Training School "Characterization of nanostructured materials", Novi Sad December 2009 (invited lecture)
26. "Preparation of core-shell perovskite structure with restricted geometries by soft chemistry methods", M.T. Buscaglia, V. Buscaglia, A. Bassano, L.P. Curecheriu, Liliana Mitoseriu, P. Nanni, The First Workshop: "Nanostructured ceramics and nanocomposites –Challenges and perspectives"; The Second Training School "Characterization of nanostructured materials", Novi Sad December 2009 (invited lecture)
27. "Grain Size Effect on the Nonlinear Dielectric Properties of Barium Titanate Ceramics", L. Curecheriu, M.T. Buscaglia, V. Buscaglia, Z. Zhao and Liliana Mitoseriu, invited (5A-11, Session 5A Integrated ferroelectrics: thin films, nanosized architectures, size effects), 12th European Meeting on Ferroelectricity June 26th – July 1st 2011, Bordeaux, France
28. "New functional properties driven by nanoscale interface reactions in magnetoelectric ceramics produced from core-shell Fe₂O₃@BaTiO₃ powders, L. Curecheriu, M.T. Buscaglia, V. Buscaglia, P. Postolache, A. Stancu, Liliana Mitoseriu, E-MRS 2011 FALL MEETING, Sept. 2011, Warsaw University of Technology, (invited lecture: Symposium A)
29. "Ferroelectric-magnetic composites with emergent electromagnetic properties", Liliana Mitoseriu, IEEE-ROMSC Iasi, 17th - 18th October 2011 (invited)
30. "Size and interface effects in nanostructured dense ferroelectric ceramics", Liliana Mitoseriu, "The Ninth Students' Meeting, SM-2011" and "The Second ESR Workshop, COST MP0904", November 16-18, 2011, Novi Sad, Serbia (invited lecture).
31. "Study of multiphase materials with ferroelectric and magnetic order", Liliana Mitoseriu and V. Buscaglia, EUROMAT Conference, Sevilla, Spain, 8-13.09.2013 (invited lecture)
32. Magnetoelectric composites: advanced synthesis methods, intrinsic vs. extrinsic properties and modeling, Liliana Mitoseriu, Training School SIMUFER COST Action MP0904 Ljubljana, Slovenia, 23-30.01.2013 (invited lecture)
33. "Nanocomposite multifunctional oxides: tailoring properties by nanostructuring and local field engineering", Liliana Mitoseriu, PIM 2013 Conference "Processes in isotopes and molecules", Cluj Napoca, Romania, 25-27 Sept. 2013 (invited lecture)
34. "Local field engineering for tailoring electrical properties in ferroelectric-based composites", L. Padurariu, L. Curecheriu and Liliana Mitoseriu, The 8th International Conference on Advanced Materials ROCAM 2015, Bucharest, Romania (invited lecture)
35. "Local field engineering for tailoring electrical properties in ferroelectric-metallic particles composites", L. Padurariu, L. Curecheriu, C. Ciomaga, M. Airimioaei, I. Turcan, A. Lukacs & Liliana Mitoseriu, Electroceramics XVI (Symposium C Theory and Modelling), Hasselt, Belgium, July 2018 (invited lecture)
36. „Scale-dependent properties in BaTiO₃ ceramics with structural instability”, A. Lukacs, L. Padurariu, L. Curecheriu, C. Ciomaga, L. Mitoseriu, 6th INTERNATIONAL WORKSHOP OF MATERIALS PHYSICS, 14-16 sept. 2021, Bucharest (invited lecture)
37. „Peculiar or enhanced properties in BaTiO₃ ceramics with structural instability induced by grain size, composition or density”, L. Padurariu, C. Ciomaga, L. Curecheriu, N. Horchidan, V. Lukacs, M. Airimioaei, L. Mitoseriu, Ceramics in Europe 2022, 10-14 July 2022, Krakow, Poland (invited lecture)
38. Exploring Ag - BaTiO₃ CERMETS with tunable metacomposite properties”, Ina Turcan, Alexandru Lukacs, Radu Stefan Stirbu, Cristina Ciomaga, Donatella Giuranno, and Liliana Mitoseriu, Xth International Edition of ROCAM, 13-15 July 2024 (invited lecture)
39. „Analysis of local vs. macroscopic properties of porous ferroelectric ceramics based on 3D reconstructed ceramic microstructures”, Leontin Padurariu, Radu Stefan Stirbu, Fereshteh F. Chamasemani, Roland Brunner, Vlad Alexandru Lukacs, Cristina Elena Ciomaga, Liliana Mitoseriu, XIX Electroceramics conference, Vilnius 19-22 August 2024 (invited lecture).

Annex IV. Director or coordinator of grants

1. Grant Nr. 7011, 7/1443: "Experimental study and modelling of dielectric properties of ferroelectric ceramics", (1997-1998): Director
2. Grant Nr. 15/48/70, "Study of switching properties in BaTiO₃ ceramic and interpretation in the frame of Landau dipole theory", (1998-1999): Director
3. Grant Nr. 175, "Study of the dielectric properties of (Hf, Zr)-BaTiO₃ and study of the electric properties", (1999-2000): Director
4. Grant A: "Study of ferroelectric polarization under low fields (Rayleigh region)", (2000-2001): Director
5. Grant A code 624 "Study of nanocrystalline and nanopolar ceramics", (2004-2006): Director
6. Grant MATNANTECH "Multifunctional nanostructured films with tunable properties - DEFAZOR", (2004-2006): Coordinator of the UAIC group (director: dr. R. Piticescu)
7. Grant CEEX-FEROCER "Integrated developing of concepts and technologies for preparation, characterization, modeling and applications of nanostructured ferroelectric ceramics", (2006-2008): Coordinator of the UAIC group (director prof. dr. A. Ianculescu)
8. Grant AC-CONMEMF "Multidisciplinary consortium for investigating multiferroic systems with magnetoelectric coupling", (2006-2008): Director
9. Grant POSDRU/89/1.5/S/49944 (2010-2013) "Dezvoltarea capacității de inovare și creșterea impactului cercetării prin programe post-doctorale": Scientific responsible
10. Grant POSDRU/89/1.5/S/63663 "Rețea transnațională de management integrat al cercetării postdoctorale în domeniul Comunicarea Științei. Construcție instituțională (Școală post-doctorală) și program de burse (CommScie)", (2010-2013): Asistent manager.
11. Grant CNCS-UEFISCDI PN-II-ID-PCE-2011-3-0745 "Material design, preparation, properties and modeling of multifunctional oxides structures for microelectronics and new energy storage applications", (2011-2016): Director.
12. Bi-lateral project Romania-Slovenia, "Dielectric spectroscopy and tunability of low-temperature processed complex perovskites (acronym DISTUNAB)" (2012-2013): Director.
13. Bi-lateral project Romania-Italia, "Investigarea unor noi sisteme BaO-TiO-FeO multiferroic: de la design de material la aplicații magnetoelectrice" (MULTIFER) (2013-2014): Director.
14. Grant CNCS-PNII-PCCE-2011-2-0006 "Effect of interfaces on charge transport in ferroic/multiferroic heterostructures" (2012-2016): Coordinator of the UAIC group (director dr. Lucian Pintilie).
15. Grant PN-II-PT-PCCA-2013-4-1119 "Compozite magnetoelectrice cu proprietati emergente pentru aplicatii in comunicatii fara fir si senzori" (MECOMAP) (2014-2017): Director.
16. Grant PN-III-P4-ID-PCE-2016-0817 "Fundamental research of scale-dependent phenomena in barium titanate-based ferroelectrics: critical grain and nanostructuring effect" (FerroScale), (2017-2019): Director
17. Grant PN-III-P4-ID-PCCF-2016-0175 "Nanostructuri particulare de tip multistrat cu constanta dielectrica ridicata cu aplicatii pentru stocarea energiei si dispozitive nanoelectronice" (HighKDevice), (2018-2022): Coordinator of the UAIC group (director conf. dr. A. Rotaru)
18. Bi-lateral project Romania-Franta "Study and multiscale modeling of new ferroelectric oxides – NOVOXFER", CNCS – UEFISCDI, proiect PN-III-P3-3.1-PM-RO-FR-2019-0069 (2019-2021): Director.
19. Grant PN-IV-P1-PCE-2023-0995 "Study of percolation effects and microstructural design through numerical modeling in metal-ferroelectroceramic metacomposites" (CERMETCOM) (2025-2027), CNCS – UEFISCDI, Director

Member in other recent grants

- PN-II-RU-TE-2012-3-150 (Dir. proiect dr. Lavinia Curecheriu) "Investigation of the mesoscopic polar order and size effects in driving polarization mechanisms of tunability in perovskites (IMPOTUN)" (2013-2016).
- PNII-RU-TE-2014-4-1494 (Dir. proiect dr. Leontin Padurariu) "Exploatarea porozitatii in materiale feroelectrice prin controlul câmpului local pentru îmbunătățirea proprietăților funcționale (EXPOFER)" (2015-2017).
- PCCE ID_76 (Dir. Proiect. Dr. C. Teodorescu) "Știința suprafețelor și interfetelor: fizica, chimie, biologie, aplicații (NANOMATGIANT)" (2010-2013).
- European Project FP7-SCIENCE-IN-SOCIETY 2011-1 (Dir. Proiect. Prof. dr. D. Balahur), "Structural Transformation to Achieve Gender Equality in Science" (STAGES) (2012-2015).
- PN-III-P4-ID-PCE-2020-1988 (Dir. Proiect Dr. CSII Cristina E. Ciomaga) "Ingineria materialelor ceramice poroase fără plumb pentru obținerea de senzori piezo-, piroelectrici cu aplicații de colectare de energie" (EnginPOR) (2021-2023)
- PN-IV-P1-PCE-2023-1758 (Dir. Proiect. Dr. Leontin Padurariu) „Exploring phase superpositions in ferroelectric ceramics as a new method to tailor functional properties" (SUPERFER) (2025-2027)
- PN-IV-P2-2.1-TE-2023-1488 (Dir. Proiect: dr. Nadejda HORCHIDAN), "Compozite piezoelectrice ceramică-polimer: de la rigid la flexibil-soluții de captare a multiple tipuri de energie în aplicații hibride de colectare (2025-2026)

Annex V. International cooperations

1. Group of prof. P. Nanni, Univ. of Genoa, Faculty of Engineering, DICheP, Genova, Italy and IENI-CNR Genova (dr. V. Buscaglia, dr. M. Viviani, dr. M.T. Buscaglia) – Nanostructured BaTiO₃ ceramics, Multiferroics, Functional composites with core-shell structures (bi-lateral agreements) starting with 2001
2. Group of prof. M. Okuyama (dr. Dan Ricinschi, drd. D. Popovici) Osaka University, Graduate School of Engineering Science, Osaka, Japan – Modeling of ferroelectric properties in BaTiO₃ ceramics and films of Pb(Zr,Ti)O₃ on the basis of Landau-Ginzburg-Devonshire theories: 1995-2005
3. Group of Prof. A.S. Siri, Physics Department, University of Genova & LAMIA-INFN, Italy – Lead-free relaxors, magnetic properties of multiferroic materials, magnetoelectric phenomena: 2004-2005
4. Group from Univ. of Aveiro, Department of Ceramic and Glass Engineering, Portugal (prof. P.M. Vilarinho and prof. P.Q. Mantas) – Properties of lead-based relaxor materials: 2000-2001
5. Group of dr. Catalin Harnagea, Univ. of Quebec, Canada (starting with 2005)
6. Group of dr. Jan Petzelt, Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic – Characterisation of ferroelectrics by vibrational spectroscopy, grain size and grain boundary effects in BaTiO₃ nanocrystalline ceramics
7. Group of dr. Carmen Galassi, ISTE-CNR Faenza, Italy – Properties of porous ceramics: FORC and Preisach modeling; piezoelectric-magnetic

- composites (bi-lateral agreement starting with 2005)
8. ERASMUS Agreement Univ. "Al.I. Cuza" Iasi, Romania - Univ. Genova, Italia (2005-2012) and with IENI-CNR (now ICMATE-CNR) Genoa: exchange of 15 students (undergraduate, Master, PhD, post-docs)
9. ERASMUS Agreement Univ. "Al.I. Cuza" Iasi, Romania – Instit. ISTECCNR, Faenza, Italia (2013-2014): exchange of 2 PhD students
10. Group of prof. Barbara Malic, Jožef Stefan Institute, Ljubljana (bi-lateral agreements starting with 2011)
11. Group of prof. Juras Banys, University of Vilnius, Lithuania (Erasmus exchanges and scientific collaboration)
12. Group of prof. Vladimir Srdic, University of Novi Sad, Serbia (scientific and PhD students exchanges).
13. Dr. Marie Helene Chambrier, Université d'Artois, Lens, France (Brancusi bi-lateral agreement and reciprocal visits)
14. Priv. Doz. Dr. Roland Brunner, Materials Center & University Leoben, Austria

Annex VI. Patents

1. Autori: L.P. Curecheriu, A.C. Ianculescu, L. Mitoseriu, F.Tufescu, F.M. Tufescu
Titlul: BST ceramic material, method for measuring tunability and BST ceramic device for measuring high voltage by galvanic separation (BST ceramic material, method for measuring tunability and BST ceramic device for measuring high voltages by galvanic separation; Patent Assignee: Univ Politehnica din Bucuresti); Brevet Nr. RO125528-A2; RO125566-A0 (ISI index) 2007
2. Autori: A.C. Ianculescu, L. Mitoseriu, L.P. Curecheriu, F.M. Tufescu, F. Tufescu
Titlul: Method for measuring tunability of ceramic materials, involves using circuit having high voltage source controlled by function generator and applying high voltage to assay-sample through protection resistor; Patent Assignee: Univ Politehnica din Bucuresti
Brevet OSIM Nr. RO125567-A0, RO125567-B1 (ISI index) 2007
3. Autori: A. Ianculescu, L. Mitoseriu, L.P. Curecheriu, F.M. Tufescu, F. Tufescu
Titlul: Metoda de masurare a tunibilitatii pentru materialele ceramice; Brevet Nr. A/00168/6.05.2009
4. Autori: A. Ianculescu, G. Voicu, D. C. Berger, L. Mitoseriu, F. Prihor
Titlul: Procedeu de preparare a soluțiilor solide de tip BiFeO₃-BaTiO₃ de înaltă puritate și produs ceramic cu proprietăți dielectrice și feromagnetice optime obținute prin acesta (Process For Preparing High Purity Solid Solutions Of The Type BiFeO₃-BaTiO₃ And Ceramic Product With Optimal Dielectric And Ferromagnetic Properties Produced Thereby; Patent Assignee: Univ Politehnica din Bucuresti); Brevet OSIM Nr. 123236/30.03.2011
5. Autori: L. Mitoseriu, V. Pascariu, C.E. Ciomaga
Titlul: Procedeu de preparare a compozitelor feroelectric-rasină epoxidică cu gradient compozițional pentru adaptare de impedanță în domeniul 2 - 4 GHz, și composite astfel obținute; Brevet OSIM Nr. 130449/ 19.08.2014
6. Autori: M. V. Pop, L. Mitoseriu
Titlul: Interfață de tensiune înaltă pentru măsurarea proprietăților electrice ale materialelor dielectrice și feroelectrice
Brevet OSIM Nr. A/00861, 30.12.2015
7. Autori: C.E. Ciomaga, M. Airimioaei, L. Mitoseriu, N. Lupu
Titlul: Compozit ceramic de tipul xCoFe₂O₄-(1-x)PbTiO₃ și procedeul de obținere al acestuia; Brevet OSIM Nr. 132918/30.09.2022
8. Autori: F. M. Tufescu, L. Mitoseriu, C. E. Ciomaga, N. Lupu, M. V. Pop, F. Tufescu
Senzor de câmp magnetic variabil cu structură magnetoelectrică stratificată din ceramică Pb(Zr,Ti)O₃ și microbenzi din Fe₇₈Si₉B₁₃
OSIM Nr. A/00422 2017, RO-BOP1 12/2018

Annex VII. Awards

1. Awards of Romanian Academy „Stefan Procopiu” for „Contribuții la investigarea complexa experimental teoretică a sistemelor feroelectrice și multiferice unifazice și compozite”, 19 DEC. 2013
2. Lot Oriel & Hamamatsu award for the contribution "Functional properties of the (1-x)BiFeO₃-xBaTiO₃ solid solutions", by Felicia Prihor, A. Ianculescu, P. Postolache, L. Curecheriu, L. Mitoseriu, as one of the six best works of the 9th European Conference on Applications of Polar Dielectrics, Roma, 2008
3. Women's annual science and technology Excellence Award 2012 from "Al. I. Cuza" Univ. of Iasi (2013).

Others:

1. COST MP 5th Annual Progress Conference, Tartu, Estonia, 11-15 Sept. 2011
2. First Early Stage Researchers Meeting of COST Action SIMUFER Hasselt University, Belgium, 18-24.03.2011
3. First COST MP0904 Training School "Nanostructured oxides: from laboratory research to industrial applications" & POSDRU 63663 Training Modules, IENI-CNR Genova & University of Genova, Italy, 9-21.03.2012
4. The third COST MP0904 Working Group Workshop, University of Vilnius, Lithuania, 20-24.04.2012
5. Conference ISAF-ECAPD-PFM 2012, Aveiro, Portugal, 7-15.07.2012
6. ELECTROCERAMICS XIII Twente, Holland, 23-28.06.2012
7. COST MP 6th Annual Progress Conference Dublin, Ireland, 13-15.09.2012
8. COST MPNS EEP Meeting conference, Bruxelles, Belgium, 25.02-1.03.2013
9. Workshop on optical and electrical properties of nanomagnets, Institute Poincaré, Univ. Pierre et Marie Curie (Paris VI), 20-24.10.2013
10. International Meeting on Ferroelectricity IMF Krakow, Poland, 1-6.09.2013
11. COST MP 7th Annual Progress Conference Reykjavik, Island, 11-15.09.2013

10.12.2025

prof. dr. Liliana Mitoseriu

