



Curriculum vitae Europass



Informații personale

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Naționalitate(-tăți)	Romana		
Data si locul nașterii	06.04.1961, Falticeni, jud Suceava		
Sex	F		

Locul de muncă / Domeniul ocupațional

UNIVERSITATEA "AL.I.CUZA" IAȘI, ROMANIA, FACULTATEA DE FIZICA

Experiența profesională

Perioada	01.09.1984-01.09.1987
Funcția sau postul ocupat	Profesor de Fizică
Activități și responsabilități principale	Activitate didactică
Numele și adresa angajatorului	Liceul Industrial Tg. Frumos, jud. Iași
Tipul activității	Profesor de fizică
Perioada	01.09.1987-01.09.1990
Funcția sau postul ocupat	Fizician
Activități și responsabilități principale	Cercetare științifică
Numele și adresa angajatorului	Universitatea "Al.I.Cuza" Iași
Tipul activității	Cercetare, suplinire activități didactice
Perioada	01.09.1990-01.09.1991
Funcția sau postul ocupat	Asistent universitar
Activități și responsabilități principale	Post didactic, cercetare științifică
Numele și adresa angajatorului	Universitatea "Al.I.Cuza" Iași
Tipul activității	Activitate didactică, cercetare
Perioada	01.09.1991-01.09.1999
Funcția sau postul ocupat	Lector universitar
Activități și responsabilități principale	Post didactic, cercetare științifică
Numele și adresa angajatorului	Universitatea "Al.I.Cuza" Iași

Tipul activitatii	Activitate didactică, cercetare
Perioada	01.09.1999 - 01.07.2000 si 01.01.2001 - 01.09.2004
Funcția sau postul ocupat	Conferențiar universitar
Activități și responsabilități principale	Post didactic, cercetare științifică
Numele și adresa angajatorului	Universitatea "Al.I.Cuza" Iași
Tipul activitatii	Activitate didactică, cercetare
Perioada	01.07.2000 - 01.12.2000
Funcția sau postul ocupat	Cercetator post-doc (NATO-CNR fellowship)
Activități și responsabilități principale	Cercetare științifică
Numele și adresa angajatorului	Institute of Chemistry and Physics Applied to Materials ICPAM-CNR (ulterior Inst. of Energetics & Interphases, in prezent Inst. of Condensed Matter Chemistry & Energy Technologies ICMATE-CNR) Genoa, Italy
Tipul activitatii	Activitate de cercetare științifică
Perioada	01.01.2001-30.12.2001
Funcția sau postul ocupat	Cercetator post-doc (NATO fellowship)
Activități și responsabilități principale	Cercetare științifică
Numele și adresa angajatorului	University of Aveiro, Portugal
Tipul activitatii	Activitate de cercetare științifică
Perioada	01.09.2004-prezent
Funcția sau postul ocupat	Profesor universitar
Activități și responsabilități principale	Post didactic, cercetare științifică
Numele și adresa angajatorului	Universitatea "Al.I.Cuza" Iași
Tipul activitatii	Activitate didactică, cercetare
Perioada	1.04.2005 – 30.12.2006
Funcția sau postul ocupat	Visiting Professor
Activități și responsabilități principale	Post de cercetare, activități didactice
Numele și adresa angajatorului	Università degli studi di Genova, Italia; Inst. of Energetics & Interphases, in prezent Inst. of Condensed Matter Chemistry & Energy Technologies ICMATE-CNR, Genova
Tipul activitatii	Activitate didactică, cercetare
Educație și formare	
Anul	2005
Calificarea / diploma obținută	Doctor in Chimie pentru Inginerie (PhD in Chemistry for Engineering): „Investigation of the role of chemical inhomogeneity and grain size effects towards the relaxor behaviour in perovskite systems”
Disciplinele principale studiate / competențe profesionale dobândite	Sisteme feroelectrice nanostructurate
Numele și tipul instituției de învățământ / furnizorului de formare	Università degli studi di Genova, Italia
Nivelul în clasificarea națională sau internațională	Gradul „Excelent”
Anul	1997

Calificarea / diploma obținută	Doctor în Fizică: „Studiul proceselor de polarizare a mediilor dielectrice neliniare cu structura de particule”
Disciplinele principale studiate / competențe profesionale dobândite	Procese de polarizare în medii feroelectrice particulare
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea “Al.I.Cuza” Iași
Calificarea / diploma obținută	Licențiat în Fizică (Diploma de merit)
Disciplinele principale studiate / competențe profesionale dobândite	Fizică
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea “Al.I.Cuza” Iași
Nivelul în clasificarea națională sau internațională	Șef promotie pe țară în 1984 (media 10.00/10)
Aptitudini și competențe personale	Fizica și chimia sistemelor oxidice nanostructurate dielectrice, feroelectrice și multiferoice
Limba(i) maternă(e)	Română
Limba(i) străină(e) cunoscută(e)	1. Engleza, 2. Italiana, 3. Franceza
Autoevaluare	
Nivel european (*)	
Limba Engleza	
Limba Italiana	
Limba Franceza	
Competente profesionale	Fizica și Chimia materialelor dielectrice, feroelectrice și multiferoice oxidice
Competente organizatorice si de coordonare	Inițiator al Grupului de Dielectrici, Feroelectrici și Multiferoici DFM la Facultatea de Fizică începând cu 1996, coordonator al acestuia; Director al Departamentului de Cercetare al Facultății de Fizică (2012-2015); Director sau coordonator al unor granturi naționale; Chair al Acțiunii FP7-ESF-COST MP0904; Reprezentantul României în Comitetul de Management al Acțiunilor COST 525, 539, IC 1208 și MP1308; Chair al conferințelor internaționale Electroceramics XIV – Bucuresti; Membru al Comitetului Internațional al conferințelor Electroceramics începand cu anul 2004; Chair al International Congress of Ceramics ICC2 Verona, Foz do Iguaçu. Co-chair TOPIC 6. Ceramics for electro-magnetic and optical applications - 14 th International European Ceramic Society ECERS Conference Toledo, Spain (2015); Membru al 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. Chair al unor Workshop-uri, Școli de vară/toamnă în cadrul unor proiecte europene sau internaționale.
Activitati de predare	Cursuri, seminarii, lab. de: Electricitate și magnetism, Electrodinamica, Electricitate și magnetism pentru aplicații medicale, Fizica metalelor și aliajelor, Medii polarizabile, Fizica dielectricilor, Proprietăți ale dielectricilor neliniari, Medii feroelectrice cu structură discretă, Fizica și tehnologia mediilor polarizabile, Fizica feroelectricilor și multiferoicilor, Fizica și tehnologia materialelor nanocompozite, Fizica generală.

Domeniul principal de cercetare: studiul ceramicelor oxidice multifuncționale pe bază de feroelectrici, în care particularitatea o constituie o abordare multidisciplinară ce combină instrumente de modelare matematică și numerică (*material design*), cu cele experimentale de chimie și fizică aplicată. LM coordonează un grup consolidat de Dielectrici, Feroelectrici și Multiferoici (DFM), creat în 1987 în cadrul Catedrei de Electromagnetism, Fac. de Fizică, cu resurse inițiale foarte limitate. De-a lungul anilor, a fost consolidată o echipă dinamică de cercetători tineri, formați în cadrul unor multiple stagii de cercetare în străinătate, s-au atras fonduri pentru echipamente și s-au menținut în țară tineri cercetători valoroși (în prezent 7 posturi pe perioadă nedeterminată, plus doctoranzi și cercetători post-doc), astfel încât grupul a devenit cunoscut în comunitatea internațională în domeniul electroceramicelor pentru rezultate semnificative în câteva direcții importante (ordine cronologică):

1. Studiul mecanismelor de polarizare feroelectrică: Modele Landau discrete, Avrami (nucleație-cresștere), care descriu comutarea feroelectrică (*switching*), rolul defectelor și al interfețelor în feroelectrici cu structuri discrete, care s-au materializat în 31 de lucrări ISI, cu > 400 de citări. Aceste prime rezultate privind simulările proceselor de polarizare au atras interesul a doua grupuri japoneze pentru colaborare, prin care 3 membri ai grupului au efectuat stagii de cercetare pentru experimente în Japonia (6 lucrări în colaborare cu Osaka Univ.) și ulterior, interesul a doua grupuri italiene (5 lucrări cu ISTE-CNR Faenza).

2. Fenomene dependente de scală în feroelectrici: contribuție importantă la nivel internațional în descrierea rolului dimensiunilor particulelor asupra naturii, tipului și caracteristicilor tranzițiilor de fază și asupra proprietăților termice, dielectrice și feroelectrice ale micro-/nanoceramicelor de BaTiO₃: (i) Studiu teoretic-experimental la dimensiuni de min. 500 nm (DFM în colaborare cu Univ. Osaka și Tokyo: 1990-2000); (ii) Analiza multiscală a efectelor granulației în domeniul (30÷500) nm - colaborare cu IENI-CNR & Univ. Genova (2002-2010): Folosind o bursă post-doc, LM a început o colaborare fructuoasă (burse multiple, stagii de cercetare, vizite, schimb de studenți Erasmus) pentru învățarea metodelor inovative de sinteză a nanoparticulelor și a procesării nanoceramicelor cu granulație controlată. Folosind nanoparticule ultrafine de BaTiO₃ (~2-5 nm), au fost produse și investigate cele mai fine ceramici dense de BaTiO₃ (30 nm granulație) la nivelul anului 2007. În acest subiect, LM a propus tematica, abordarea teoretică și experimentală, caracterizare dielectrică și feroelectrică, interpretare de date. Rezultatele sunt materializate în teza de doctorat în Chimie pentru Inginerie la Univ. Genova în 2005. După 2010, rolul efectelor dimensionale asupra proprietăților de câmp înalt a fost investigat exclusiv în cadrul Grupului DFM în care s-au analizat efecte dielectrice neliniare, iar efectele dimensionale au fost descrise prin calcule cu element finit și validate cu date experimentale până la granulații de min. 90 nm (Grant FerroScale 0817). Rezultatele privind efectele dimensionale au fost publicate în 22 de lucrări ISI, această tematică având cel mai mare impact la nivel internațional (>2000 citări).

3. Tranziții feroelectric-relaxor și superpoziție de faze morfotropice MPB (54 lucrări ISI, > 1700 citări): (i) Studiul relaxorilor cu Pb și efecte de compoziție la limita MPB (colaborare cu Univ. Aveiro, Portugalia). Rezultate importante: găsirea MPB prin studii multiscală și descoperirea efectului magnetoelectric în PbFe_{2/3}W_{1/3}O₃-PbTiO₃; (ii) Studii experimentale și teoretice ale relaxorilor de tip BaM_xTi_{1-x}O₃ cu substituție homovalentă pe poziția Ti⁴⁺ (M⁴⁺ = Sn⁴⁺, Zr⁴⁺, Ce⁴⁺). Rezultate semnificative: descrierea tranziției feroelectric-relaxor indusă de compoziție (rolul compoziției și neomogenității la scară nanometrică), efectul nanostructurării, rolul vacanțelor de oxigen asupra proprietăților electrice în Sn-BT (Grant MULTIFOX 0745; 43 publicații ISI - 21 autor principal, > 1100 citări).

4. Sisteme magnetoelectrice: multiferoici unifazici BiFeO₃, Fe-BaTiO₃ și diverse compozite cu feroelectric (preparare, analize fizico-chimice, modelarea proprietăților electrice și magnetice, aplicații), inițial în colaborare cu Univ. Genova și apoi în țară (Grant consorțiu AC-CONSMEMF-115, PCCA-2013-4-1119, multiple teze de master și doctorat, post-doc, proiecte). Rezultate majore: au fost proiectate compozite multiferoice cu proprietăți electromagnetice emergente ($\epsilon \leq 0, \mu \leq 0$ la frecvențe date); s-au propus noi metode de a induce faze magnetice moi/dure controlând reacțiile la interfețe în structuri miez-înveliș și instrumente pentru a reduce pierderile dielectrice prin controlul asamblării fazelor. Principalele rezultate ale cercetării au fost publicate în 55 de lucrări ISI (36 autor principal, >1600 citări): 3 brevete naționale. În acest domeniu, s-a colaborat cu alte grupuri din România, Italia, UK, Lituania, Serbia, Spania.

5. Compozite cu feroelectric și ceramici poroase: diverse combinații de materiale: dielectric-feroelectric, feroelectric-semiconductor, metal-feroelectric sau ceramici poroase anizotrope realizate pentru adaptarea răspunsului dielectric, fero/piezo/pyroelectric, de transport. Recent s-au produs compozite feroelectric-polimeri flexibili și s-au realizat dispozitive pentru colectarea energiei prin efect piezo/tribo/pyroelectric. Aceste subiecte s-au materializat în 30 de lucrări ISI cu 525 citări.

Ca urmare a cercetărilor menționate, au rezultat:

- (a) 223 publicații indexate ISI în colaborare (Anexa I), 7 brevete OSIM România indexate ISI, 10 cărți / capitole carte (6 în ed. internaționale); Indici scientometrici: T=136, A=32.5, P=64.93, I=25.5, C=1001.5
- b) participări la granturi științifice: 28 (21 ca director sau coordonator UAIC)
- c) citări în reviste ISI (fără auto-citări): 6525 (WoS), 6983 (Scopus), >8303 Google Academic; factor Hirsch: h = 43 (WoS), 44 (Scopus), 49 (Google Academic)
- d) 52 prezentări invitate la conferințe internaționale în străinătate.

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<https://publons.com/researcher/2869631/liliana-mitoseriu/>

<https://scholar.google.com/citations?hl=ro&user=5Wa5G7IAAAAJ>

Editor „Journal of European Ceramic Society” (Q1) din 2021; Membru al scientific board al Journal "Processing and Application of Ceramics" (Q2-Q3), începând din 2007.

Acorduri internaționale și colaborări active cu: IENI-CNR Genoa, Univ. Genoa, LAMIA-INFM Genoa, ISTEC-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); Materials CenetrLeoben, Austria. Acorduri ERASMUS și COST, schimburi de studenți (> 20 studenți în laboratoare Europene pentru activități de cercetare, training, cursuri); Vizite de cercetare în cadrul grupului DFM (profesori, studenți, doctoranzi, cerc. post-doc) din Italia, Slovenia, Franta, Maroc, Japonia, Canada, Algeria, Serbia, UK.

Invitații pentru susținere de cursuri și seminarii științifice în: Italia - Univ. Genoa, IENI-CNR Genoa și ISTEC-CNR Faenza, Cehia - Inst. of Physics, Czech Academy of Prague; Portugalia - Univ. Aveiro, Brazilia – UNESP, Inst. de Química, Araraquara, Sao Paulo; Franta: Univ. Pierre & Marie Curie, Paris (nivel: Master, Școală doctorală, post-doc), Univ. Artois, Lens (post-doc).

Premii: 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, Premiul Academiei Române „Ștefan Procopiu” în Fizică pentru "Contribuții la studiul experimental și teoretic al materialelor feroelectrice și multiferice (unifazice și compozite)" (2013); Premiul de Excelență al Univ. Al. I. Cuza din Iași pentru femei în știință și tehnologie (2012); Premiul pentru Excelență în cercetare al Univ. Al. I. Cuza din Iași (2021, 2024).

Annex I. List of publications in ISI journals

2025

1. 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)
2. 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)
3. 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 BaTi_{1-x}Hf_xO₃ ceramics consolidated by Spark Plasma Sintering, J. European Ceramic Society 45, 117600 (2025)
4. 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 BaTi_{0.90}Hf_{0.10}O₃ 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)
5. 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

1. 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
2. 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
3. Modeling of hysteretic response of porous piezo/ferroelectric ceramics, R.S. Stirbu, L. Mitoseriu, Computational Materials Science 232 (2024) 112633: Q1

2023

4. Dielectric, ferroelectric and electrocaloric properties of 1%Eu - doped BaZr_{1-y}Ti_{1-y}O₃ ceramics, L. Curecheriu, T. Sandu, O. Condurache, G. Canu, C. Costa, M.T. Buscaglia, M. Asandulesa, J. Banys, V. Buscaglia, L. Mitoseriu, Materials Research Bulletin, 157, 112034 (2023), IF: 5.6 (Q2)
5. Grain size-driven effect on the functional properties in Ba_{0.6}Sr_{0.4}TiO₃ ceramics consolidated by spark plasma sintering, R.E. Patru, C.A. Stanciu, E.M. Soare, V.A. Surdu, R.D. Trușca, 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
6. 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
7. 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
8. Analysis of local vs. macroscopic properties of porous BaTiO₃ ceramics based on 3D reconstructed ceramic microstructures, L. Padurariu, F.F. Chamaseamani, 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

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201. Ageing of low field dielectric constant and losses in (Hf, Zr)-doped BaTiO_3 ceramics, V. Tura, Liliana Mitoseriu, *Europhys. Lett.*, 50(6), 810-815 (2000)

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205. Theoretical Analysis of Fatigue in PZT Ceramics on the Basis of Landau Theory, D. Ricinschi, Al. I. Lerescu, Liliana Mitoseriu, V. Tura and M. Okuyama, *J. Kor. Phys. Soc.* 35, S1313-1317 (1999)

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214. Polarization reversal in (Nb, Co)-doped BaTiO_3 ceramics, V. Tura, Liliana Mitoseriu, *Phys. Lett. A* 189, 327-330 (1994)
215. Switching currents in (Nb,Co)-Doped BaTiO_3 ceramics in the presence of a sinusoidal electric field, Liliana Mitoseriu, V. Tura, Al. Stancu, *Phys. Lett. A* 196, 272-280 (1994)

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Annex II. Books

1. "Lucrari de laborator de electricitate si magnetism", C. Papusoi, Al. Stancu, Liliana Mitoseriu, Ed. BIT, Iasi, 1996, ISBN 973-97908-4-4, 140 pages (In Romanian)
2. "Fizica mediilor polarizabile", Liliana Mitoseriu, V. Tura, Ed. Univ. "Al. I. Cuza" Iasi, 1998, 170 pages (in Romanian)
3. "Fizica dielectricilor", Liliana Mitoseriu, V. Tura, Ed. Univ. "Al. I. Cuza" Iasi, 1999, ISBN 973-9312-50-0, 311 pages (in Romanian)
4. "Electricitate si magnetism", Liliana Mitoseriu, V. Tura, Ed. Univ. "Al. I. Cuza" Iasi, 2000, 360 pages (in Romanian)
5. "Electricitate și Magnetism", Liliana Mitoseriu, Vasile Tura, CIDD-CP/IDESC Publishing Center, Iasi, 2000, 152 p., ISSN 1221-9363.

6. "New developments in advanced functional ceramics", Research Signpost 37/661 (2), Fort P.O., Trivandrum-695 023, Kerala, India (nov. 2006), Liliana Mitoseriu, Editor, ISBN: 81-7895-248-3 and author of chapters:
 - cap. 2. "Ferroelectric-relaxor crossover in $\text{PbFe}_{2/3}\text{W}_{1/3}\text{O}_3 - \text{PbTiO}_3$ solid solutions", Liliana Mitoseriu, A. Ianculescu, p. 19-60
 - cap. 12 "Multiferroic BiFeO_3 : functional properties and possible mechanisms for high polarization", Liliana Mitoseriu, A. Ianculescu, D. Ricinschi, p. 317-338
 - 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. " $\text{Ba}(\text{Ti},\text{Zr})\text{O}_3$ – 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; $\text{Ba}(\text{Ti},\text{Zr})\text{O}_3$ - 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); $\text{Ba}(\text{Ti},\text{Zr})\text{O}_3$ -Functional Materials: From Nanopowders to Bulk Ceramics, A. Ianculescu, Liliana Mitoseriu, $\text{Ba}(\text{Ti},\text{Zr})\text{O}_3$ -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 BaTiO_3 - BaZrO_3 System, Ianculescu, A.; Liliana Mitoseriu, Book Author(s): A. Ianculescu, Liliana Mitoseriu, $\text{Ba}(\text{Ti},\text{Zr})\text{O}_3$ -functional materials: from nanopowders to bulk ceramics, Book Series: NANOTECHNOLOGY SCIENCE AND TECHNOLOGY Published: 2010; Preparation and Characterization of $\text{Ba}(\text{Ti},\text{Zr})\text{O}_3$ nanopowders: Influence of the processing method on the structural and morphological properties, A. Ianculescu, Liliana Mitoseriu, Book Author(s): A. Ianculescu, Liliana Mitoseriu, $\text{Ba}(\text{Ti},\text{Zr})\text{O}_3$ -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 BaTiO_3 and SrTiO_3 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. Păitesciu)
7. Grant CEEEX-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-CONSMEMF "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 (Scoală 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 Pîntilie).
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, project 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 interfețelor: 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-, piroelectrice 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, ISTEC-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. ISTEC-CNR, 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 „Ștefan 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

