

## Lista completă de lucrări

### (a) Lista celor mai relevante publicații

1. Lavinia-Petronela Curecheriu, Andreea Irina Barzic, Iuliana Stoica, Raluca Marinica Albu, Mirela Fernanda Zaltariov, Gabriela Turcanu, Felicia Gheorghiu, Paola Stagnaro, Maria Teresa Buscaglia, Tailoring the Applicative Performance of Chitosan-Based Composites Through the Features of BaTiO<sub>3</sub> Particles Synthesized by Two Different Methods, Polymer Composites, 47, 6, 5222-5240 (2026)

Factor de impact = 4.7 - Q2

Autor principal: Da (prim autor)

2. Gabriela Turcanu, Iuliana Stoica, Raluca Marinica Albu, Cristian-Dragos Varganici, Mihaela Iuliana Avadanei, Andreea Irina Barzic, Lavinia-Petronela Curecheriu, Paola Stagnaro, Maria Teresa Buscaglia, Design of Polysaccharide-Based Nanocomposites for Eco-Friendly Flexible Electronics, Polymers, 17, 1612 (2025)

Factor de impact = 4.9 – Q1

Autor principal: Da (autor corespondent)

3. Leontin Padurariu, Elisabetta Brunengo, Giovanna Canu, Lavinia Petronela Curecheriu, Lucia Conzatti, Maria Teresa Buscaglia, Paola Stagnaro, Liliana Mitoseriu, Vincenzo Buscaglia, Role of microstructures in the Dielectric properties of PVDF-Based Nanocomposites Containing High-Permittivity Fillers for Energy Storage, ACS Applied Materials & Interfaces, 15, 10, 13535-13544 (2023)

Factor de impact = 8.5 – Q1

Autor principal: Nu

4. Lavinia Curecheriu, Teodora Sandu, Oana Condurache, Giovanna Canu, Chiara Costa, Maria Teresa Buscaglia, Mihai Asandulesa, Juras Banys, Vincenzo Buscaglia and Liliana Mitoseriu, Dielectric, ferroelectric and electrocaloric properties of 1%Eu-doped BaZr<sub>y</sub>Ti<sub>1-y</sub>O<sub>3</sub> ceramics, Materials Research Bulletin 157, 112034 (2023)

Factor de impact = 5.3 - Q2

Autor principal: Da (prim autor & autor corespondent)

5. Lavinia Curecheriu, Maria Teresa Buscaglia, Vlad-Alexandru Lukacs, Leontin Padurariu, Cristina Ciomaga, Role of density and grain size on the electrocaloric effect in Ba<sub>0.90</sub>Ca<sub>0.10</sub>TiO<sub>3</sub> ceramics, Materials 15, 7825 (2022)

Factor de impact = 3.4 - Q2

Autor principal: Da (prim autor & autor corespondent)

6. Leontin Padurariu, Lavinia Curecheriu, Cristina Ciomaga, Mirela Airimioaei, Nadejda Horchidan, Cipriana Cioclea, Vlad-Alexandru Lukacs, Radu-Stefan Stirbu, Liliana Mitoseriu, Modifications of structural, dielectric and ferroelectric properties induced by porosity in BaTiO<sub>3</sub> ceramics with phase coexistence, JOURNAL OF ALLOYS AND COMPOUNDS, 889, 161699, (2021)

Factor de impact=6.371– **Q1**

Autor principal: Da (autor corespondent)

7. Vlad Al. Lukacs, Roxana Stanculescu, Lavinia Curecheriu, Cristina Ciomaga, Nadejda Horchidan, Cipriana Cioclea, Liliana Mitoseriu, Structural and functional properties of BaTiO<sub>3</sub> porous ceramics produced by using pollen as artificial template, Ceramics International, 46, 523-530 (2020)

Factor de impact =4.527 – **Q1**

Autor principal: Da (autor corespondent)

8. Oana Condurache, Ina Turcan, Lavinia Curecheriu, Cristina Ciomaga, Petronel Postolache, Gabriela Ciobanu, Liliana Mitoseriu, Towards novel functional properties by interface reaction in mixtures of BaTiO<sub>3</sub>-Fe<sub>2</sub>O<sub>3</sub> composite ceramics, Ceramics International, 43, 1098-1105 (2017)

Factor de impact =3.057 – **Q1**

Autor principal: Da (autor corespondent)

9. Alexandra Neagu, Lavinia Curecheriu, Mirela Airimioaei, Ana Cazacu, Adrian Cernescu, Liliana Mitoseriu, Impedance spectroscopy characterization of relaxation mechanisms in gold-chitosan nanocomposites, Composites:Part B 71, 210-217 (2015)

Factor de impact =3.85 - **Q1**

Autor principal: Da (autor corespondent)

10. Lavinia Petronela Curecheriu, Sorin-Bogdan Balmus, Maria Teresa Buscaglia, Vincenzo Buscaglia, Adelina Ianculescu and Liliana Mitoseriu, Size dependent properties of dense nanocrystalline barium titanate ceramics, Journal of American Ceramic Society, 95,12, 3912-3921 (2012)

Factor impact = 2.272- **Q1**

Autor principal: Da (prim autor)

## **(b) Teza de doctorat**

Lavinia Petronela Curecheriu, Contribution to the study of nonlinear phenomena in ferroelectric ceramics, Alexandru Ioan Cuza University, Iasi, Romania, 2009

## **(c) Brevete**

1. Adelina C. Ianculescu, Liliana Mitoseriu , Lavinia P. Curecheriu, Florin M. Tufescu, Florin Tufescu, 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 Number(s): RO125567-A0 (ISI index)

2. Lavinia P. Curecheriu, Adelina C. Ianculescu , Liliana Mitoseriu, Florin Tufescu , Florin M. Tufescu, BST ceramic material, method for measuring tunability and BST ceramic device for measuring high voltage by galvanic separation, Patent Number(s): RO125528-A2; RO125566-A0 (ISI index)

#### **(d) Cărți**

1. A. C. Ianculescu, D.C. Berger, C.A. Vasilescu, M. Olariu, B.S. Vasile, L.P. Curecheriu, A. Gajovic, R. Trusca, Cap. I Incorporation mechanism and functional properties of Ce-doped BaTiO<sub>3</sub> ceramics derived from nanopowders prepared by modified Pechini method, in “Nanoscale Ferroelectrics and Multiferroics: Key Processing and Characterization Issues, and Nanoscale Effects“, Ed. Wiley & Sons, p. 13-44 (2016)
2. L. Mitoseriu, L. Curecheriu, Cap. XV. Nanostructured barium titanates ceramics: intrinsic versus extrinsic effects in “Nanoscale Ferroelectrics and Multiferroics: Key Processing and Characterization Issues, and Nanoscale Effects“, Ed. Wiley & Sons, p. 473-501

#### **(e) Articole in extenso in reviste din circuitul internațional**

##### **Articole cotate ISI (altele decât cele de la punctul (a))**

1. Raluca Marinica Albu, Mihaela Iuliana Avadanei, Lavinia-Petronela Curecheriu, Gabriela Turcanu, Iuliana Stoica, Marius Soroceanu, Daniela Rusu, Cristian-Dragos Varganici, Victor Cojocaru, Andreea Irina Barzic, Cellulose Ether/Citric Acid Systems Loaded with SrTiO<sub>3</sub> Nanoparticles with Solvent-Tailored Features for Energy-Related Technologies, *Molecules* 30, 3271, 2025  
Factor de impact = 4.6 (punctaj 2024) - **Q1**  
Autor principal: Da (autor corespondent)
2. Vlad Alexandru Lukacs, Radu Stirbu, Oana Andreea Condurache, Lavinia Petronela Curecheriu, Mirela Airimioaei, Cristina Elena Ciomaga, George Stoian, Gabriel Caruntu, Liliana Mitoseriu, Maria Teresa Buscaglia, Cuboidal vs equiaxed: The role of nanopowder assembly during BaTiO<sub>3</sub> ceramic pressing step, *Journal of Materials Science&Technology*, 189, 13-24 (2024)  
Factor impact = 14.3 – **Q1**  
Autor principal: Nu
3. Ina Turcan, Lavinia Petronela Curecheriu, George Stoian, Ilarion Mihaila, Cristina Elena Ciomaga, Liliana Mitoseriu, Influence of sintering temperature on the electrical properties of SrTiO<sub>3</sub>-BaZrTiO<sub>3</sub> ceramics for energy storage applications, *Ceramics International*, 50, 12, 21898-21908 (2024)  
Factor impact = 5.6 – **Q1**  
Autor principal: Nu

4. Nadejda Horchidan, Lavinia Petronela Curecheriu, Vlad Alexandru Lukacs, Radu Stefan Stirbu, Florin Mihai Tufescu, Ioan Dumitru, George Stoian, Cristina Elena Ciomaga, Porosity effect on the functional properties and energy harvesting performance of  $\text{Ba}_{0.85}\text{Ca}_{0.15}\text{Ti}_{0.90}\text{Zr}_{0.10}\text{O}_3$  ceramics, Journal of the American Ceramic Society, 107, 5, 3230-3242 (2024)

Factor impact= 3.8 – Q1

Autor principal: Nu

5. Leontin Padurariu, Fereshteh Falah Chamasemani, Roland Brunner, Lavinia Petronela Curecheriu, Vlad Alexandru Lukacs, Radu Stefan Stirbu, Cristina Elena Ciomaga, Liliana Mitoseriu, Analysis of local vs. Macroscopic properties of porous  $\text{BaTiO}_3$  ceramics based on 3D reconstructed ceramic microstructures, Acta Materialia, 255, 119084 (2023)

Factor impact= 8.3 – Q1

Autor principal: Nu

6. Roxana-Elena Patru, Catalina Andreea Stanciu, Elena Mirabela Soare, Vasile-Adrian Surdu, Roxana Doina Trusca, Adrian Ionut Nicoara, Bogdan Stefan Vasile, Georgia Boni, Luminita Amarande, Nadejda Horchidan, Lavinia Petronela Curecheriu, Liliana Mitoseriu, Lucian Pintilie, Ioana Pintilie, Adelina-Carmen Ianculescu, Grain size-driven effect on the functional properties in  $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$  ceramics consolidated by spark plasma sintering, Journal of the European Ceramic Society, 43, 8, 3250-3265 (2023)

Factor impact=5.8 – Q1

Autor principal: Nu

7. Leontin Padurariu, Nadejda Horchidan, Cristina Elena Ciomaga, Lavinia-Petronela Curecheriu, Vlad Alexandru Lukacs, Radu Stefan Stirbu, George Stoian, Mihaela Botea, Valentin Adrian Maraloiu, Lucian Pintilie, Aurelian Rotaru, Liliana Mitoseriu, Influence of Ferroelectric Filler Size and Clustering on the Electrical Properties of (Ag- $\text{BaTiO}_3$ )-PVDF Sub-Percolative Hybrid Composites, 15, 5744-5759 (2023)

Factor impact=8.5 – Q1

Autor principal: Nu

8. Cristina E. Ciomaga, Lavinia P. Curecheriu, Vlad A. Lukacs, Nadejda Horchidan, Florica Doroftei, Renaud Valois, Megane Lheureux, Marie Helene Chambrier, Liliana Mitoseriu, Optimization of processing steps for superior functional properties of  $(\text{Ba,Ca})(\text{Zr,Ti})\text{O}_3$  ceramics, Materials 15,8809 (2022)

Factor impact=3.4 – Q2

Autor principal: Da (autor corespondent)

9. Nadejda Horchidan , Cristina Elena Ciomaga , Lavinia Petronela Curecheriu , George Stoian , Mihaela Botea, Mihaela Florea , Valentin Adrian Maraloiu , Lucian Pintilie , Florin Mihai Tufescu, Vasile Tiron, Aurelian Rotaru, Liliana Mitoseriu, Increasing Permittivity and

Mechanical Harvesting Response of PVDF-Based Flexible Composites by Using Ag Nanoparticles onto BaTiO<sub>3</sub> Nanofillers, Nanomaterials, 12, 934, (2022)

Factor de impact=5.3 – Q2

Autor principal: Nu

10. Vlad Alexandru Lukacs, Mirela Airimioaei, Leontin Padurariu, Lavinia Petronela Curecheriu, Cristina Elena Ciomaga, Andrea Bencan, G. Drazic, M. Avakian, J.L. Jones, G. Stoian, M. Deluca, R. Brunner, A. Rotaru, L. Mitoseriu, Phase coexistence and grain size effects on the functional properties of BaTiO<sub>3</sub> ceramics, Journal of the European Ceramic Society, 42, 2230-2247 (2022)

Factor de impact=5.7 – Q1

Autor principal: Nu

11. Vlad-Alexandru Lukacs, Gabriel Caruntu, Oana Condurache, Cristina Ciomaga, Lavinia Curecheriu, Leontin Padurariu, Maria Ignat, Mirela Airimioaei, George Stoian, Aurelian Rotaru, Liliana Mitoseriu, Preparation and properties of porous BaTiO<sub>3</sub> nanostructured ceramics produced from cuboidal nanocrystals, Ceramics International, 47, 13, 18105-18115, 1 Jul 2021

Factor de impact=5.2 – Q1

Autor principal: Nu

12. Sarunas Svirskas, Dzmitry Adamchuk, Robertas Grigalaitis, Dziugas Jablonskas, Jan Macutkevicius, Giovanna Canu, Maria Teresa Buscaglia, Vincenzo Buscaglia, Lavinia Curecheriu, Liliana Mitoseriu, Juras Banys, Dipolar glass state in BaCe<sub>0.3</sub>Ti<sub>0.7</sub>O<sub>3</sub> perovskite solid solutions, Journal of Alloys and Compound, 854, 155755 (2021)

Factor de impact=6.2 – Q1

Autor principal: Nu

13. Nadejda Horchidan, Lavinia Curecheriu, Cristina E. Ciomaga, Nicoleta Lupu, Liliana Mitoseriu, Preparation and functional properties of BaTiO<sub>3</sub>-BaGeO<sub>3</sub> ceramics, TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL, 68, 2, 279-287 (2021)

Factor de impact=3.6 – Q1

Autor principal: Da (autor corespondent)

14. Felicia Gheorghiu, Mihai Asandulesa, Lavinia Curecheriu, Electrical properties of KTa<sub>0.65</sub>Nb<sub>0.35</sub>O<sub>3</sub> lead-free ceramics, Processing and Application of Ceramics, 14 [4], 372-377 (2020)

Factor de impact=1.804 – Q2

Autor principal: Da (autor corespondent)

15. Lavinia Curecheriu, Catalin Harnagea, Maria Teresa Buscaglia, Ilaria Palleschi, Bogdan Stefan Vasile, Vasile-Adrian Surdu, Adelina-Carmen Ianculescu, Alain Pignolet, Federico Rosei, Liliana Mitoseriu, Vincenzo Buscaglia, Four-fold multifunctional properties in self-organized layered ferrite, Ceramics International, 46, 28621-28630 (2020)

Factor de impact=4.527 – Q1

Autor principal: Da (prim autor)

16. Elisabetta Brunengo, Lucia Conzatti, Ilaria Schizzi, Maria Teresa Buscaglia, Giovanna Canu, Lavinia Curecheriu, Chiara Costa, Maila Castellano, Liliana Mitoseriu, Paolo Stagnaro, Vincenzo Buscaglia, Improved dielectric properties of poly(vinylidene fluoride)-BaTiO<sub>3</sub> composites by solvent-free processing, Journal of Applied Polymer Science, 138, 12, 50049 (2020)

Factor de impact=3.125 – Q2

Autor principal: Nu

17. Leontin Padurariu, Vlad-Alexandru Lukacs, George Stoian, Nicoleta Lupu, Lavinia-Petronela Curecheriu, Scale-dependent dielectric properties in BaZr<sub>0.05</sub>Ti<sub>0.95</sub>O<sub>3</sub> ceramics, Materials, 13, 4386 (2020)

Factor de impact=3.623 – Q1

Autor principal: Da (autor corespondent)

18. Felicia Gheorghiu, Roxana Stanculescu, Lavinia Curecheriu, Elisabetta Brunengo, Paola Stagnaro, Vasile Tiron, Petronel Postolache, Maria Teresa Buscaglia, Liliana Mitoseriu, PVDF-ferrite composites with dual magneto-piezoelectric response for flexible electronics applications: synthesis and functional properties, J Mater Sci, 55, 3926-3939 (2020)

Factor de impact=4.220 – Q2

Autor principal: Nu

19. Nadejda Horchidan, Leontin Padurariu, Cristina E. Ciomaga, Lavinia Curecheriu, Mirela Airimioaei, Florica Doroftei, Florin Tufescu, Liliana Mitoseriu, Room temperature phase superposition os origin of enhanced functional properties in BaTiO<sub>3</sub>- based ceramics, Journal of the European Ceramic Society, 40, 1258-1268 (2020)

Factor de impact=5.302 – Q1

Autor principal: Nu

20. Vlad Al. Lukacs, Ina Turcan, Leontin Padurariu, Lavinia Curecheriu, Adrian Cernescu, George Stoian, Cristina Elena Ciomaga, Florin Tufescu, Nicoleta Lupu, Liliana Mitoseriu, Nonlinear dielectric properties of BaTiO<sub>3</sub>- silver composites: The role of microstructure, Journal of Alloys and Compound, 817, 153336 (2020)

Factor de impact=5.316 – Q1

Autor principal: Da (autor corespondent)

21. Lavinia Curecheriu, Vlad Alexandru Lukacs, Leontin Padurariu, George Stoian, Cristina Elena Ciomaga, Effect of porosity on functional properties of lead-free piezoelectric BaZr<sub>0.15</sub>Ti<sub>0.85</sub>O<sub>3</sub> porous ceramics, Materials, 13, 3324 (2020)

Factor de impact =3.623 – Q1

Autor principal: Da (prim autor)

22. Veronica Chiriac, Georgiana Bulai, Lavinia Curecheriu, Ionut Topala, Nicoleta Dumitrascu, Synthesis and characterization of (co)polymeric films obtained under atmospheric conditions, Material Letters, 264, 127062 (2020)

Factor de impact=3.423 – Q2

Autor principal: Nu

23. Cristina E. Ciomaga, Alexandra Guzu, Mirela Airimioaei, Lavinia P. Curecheriu, Vlad Alexandru Lukacs, Ovidiu G. Avadanei, George Stoian, Marian Grigoras, Nicoleta Lupu, Mihai Asandulesa, Liliana Mitoseriu Comparative study of magnetoelectric BaTiO<sub>3</sub>-Co<sub>0.8</sub>Zn<sub>0.2</sub>Fe<sub>2</sub>O<sub>4</sub> bi-tunable ceramics sintered bu Spark Plasma Sintering and classical method, Ceramics International , 45, 18, 24168-24175 (2019)

Factor de impact=3.83 – Q1

Autor principal: Nu

24. Alexandra Guzu, Cristina Elena Ciomaga, Mirela Airimioaei, Leontin Padurariu, Lavinia-Petronela Curecheriu, Ioan Dumitru, Felicia Gheorghiu, George Stoian, Marian Grigoras, Nicoleta Lupu, Mihai Asandulesa, Liliana Mitoseriu, Functional properties of randomly and layered BaTiO<sub>3</sub>-CoFe<sub>2</sub>O<sub>4</sub> ceramic composites closet o the percolation limit, Journal of Alloys and Compound, 796, 55-64 (2019)

Factor de impact=4.65 – Q1

Autor principal: Nu

25. Giovanna Canu, Gregorio Bottaro, Maria Teresa Buscaglia, Chiara Costa, Oana Condurache, Lavinia Curecheriu, Liliana Mitoseriu, Vincenzo Buscaglia, Lidia Armelao, Ferroelectric order driven Eu<sup>3+</sup>, photoluminescence in BaZr<sub>x</sub>Ti<sub>1-x</sub>O<sub>3</sub>, perovskite, Sci Rep. 9, 6441 (2019)

Factor de impact=3.998 – Q1

Autor principal: Nu

26. Ina Turcan, Alexandru Vlad Lukacs, Lavinia Curecheriu, Leontin Padurariu, Cristina Elena Ciomaga, Mirela Airimioaei, George Stoian, Nicoleta Lupu, Liliana Mitoseriu, Microstructure and dielectric properties of Ag-BaTiO<sub>3</sub> composite ceramics, Journal of the European Ceramic Society, 38, 5420-5429 (2018)

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Autor principal: Nu

27. Giovanna Canu, Giorgia Confalonieri, Marco Deluca, Lavinia Curecheriu, Maria Teresa Buscaglia, Mihai Asandulesa, Nadejda Horchidan, Monica Dapiaggi, Liliana Mitoseriu, Vincenzo Buscaglia, Structure-properties correlations and origin of relaxor behaviour in BaCexTi<sub>1-x</sub>O<sub>3</sub>, Acta Materialia, 152, 258-268 (2018)

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28. Mirela Airimioaei, Maria Teresa Buscaglia, Ilarie Tredici, Umberto Anselmi-Tamburini, Cristina Elena Ciomaga, Lavinia Curecheriu, Andreja Bencan, Vincenzo Buscaglia, Liliana

Mitoseriu, BaTiO<sub>3</sub>-SrTiO<sub>3</sub> nanocomposites with temperature independent permittivity and linear tunability fabricated by field-assisted sintering from chemically synthesized powders, Journal of Materials Chemistry C, 5, 9028 (2017)

Factor de impact=5.976 – Q1

Autor principal: Nu

29. Lavinia-Petronela Curecheriu, Maria Teresa Buscaglia, Filippo Maglia, Cipriana Padurariu, Gabriela Ciobanu, Umberto Anselmi-Tamburini, Vincenzo Buscaglia, Liliana Mitoseriu, Tailoring the functional properties of PLZT-BaTiO<sub>3</sub> composite ceramics by core-shell approach, Journal of Applied Physics, 121, 14, 144101 (2017)

Factor de impact=2.176 – Q2

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30. Cipriana Padurariu, Leontin Padurariu, Lavinia Curecheriu, Cristina Ciomaga, Nadejda Horchidan, Carmen Galassi, Liliana Mitoseriu, Role of the pore interconnectivity on the dielectric, switching and tunability properties of PZT ceramics, Ceramics International, 43, 7, 5767-5773 (2017)

Factor de impact=3.057

Autor principal: Da (autor corespondent)

31. Felicia Gheorghiu, Leontin Padurariu, Mirea Airimioaei, Lavinia Curecheriu, Cristina Elena Ciomaga, Cipriana Padurariu, Carmen Galassi, Liliana Mitoseriu, Porosity dependent properties of Nb-doped Pb(Zr,Ti)O<sub>3</sub> ceramics, Journal of the American Ceramic Society, 100, 2, 647-658 (2017)

Factor de impact=2.956 – Q1

Autor principal: Nu

32. Lavinia Curecheriu, Cristina Ciomaga, Valentina Musteata, Giovanna Canu, Vincenzo Buscaglia, Liliana Mitoseriu, Diffuse phase transition and high electric field properties of BaCe<sub>y</sub>Ti<sub>1-y</sub>O<sub>3</sub> relaxor ferroelectric ceramics, Ceramics International, 42, 11085-11092 (2016)

Factor de impact=2.986 – Q1

Autor principal: Da (prim autor)

33. T. Teslaru, I. Topala, M. Dobromir, V. Pohoata, L. Curecheriu, N. Dumitrascu, Polythiophene films obtained by polymerization under atmospheric pressure plasma conditions, Materials Chemistry and Physics, 169, 120-127 (2016)

Factor de impact= 2.084 – Q2

Autor principal: Nu

34. Leontin Padurariu, Lavinia Curecheriu, Liliana Mitoseriu, Nonlinear dielectric properties of paraelectric-dielectric composites described by a 3D Finite Element Method based on Landau-Devonshire theory, Acta Materialia 103, 724-734 (2016)

Factor de impact=5.301 – Q1 (Top 1)

Autor principal: Nu

35. A. Sakanas, R. Grigalaitis, J. Banys, L. Curecheriu, L. Mitoseriu, V. Buscaglia, Microstructural influence on the broadband dielectric properties of BaTiO<sub>3</sub>-Ni<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> core-shell composites: Experiment and modeling, J. Appl. Phys, 118, 174106 (2015)

Factor de impact =2.101 – Q2

Autor principal: Nu

36. Adelina Inaculescu, Catalina Vasilescu, Maria Crisan, Malina Raileanu, Bogdan Vasile, Mihai Calugaru, Dorel Crisan, Nicolae Dragan, Lavinia Curecheriu, Liliana Mitoseriu, Formation mechanism and characteristics of lanthanum-doped BaTiO<sub>3</sub> powders and ceramics prepared by sol-gel process, Materials Characterization, 106, 195-207 (2015)

Factor de impact =2.383 – Q1

Autor principal: Nu

37. Felicia Gheorghiu, Lavinia Curecheriu, Isabelle Lisiecki, Patricia Beaunier, Simona Feraru, Mircea Palamaru, Valentina Musteata, Nicoleta Lupu, Liliana Mitoseriu, Functional properties of Sm<sub>2</sub>NiMnO<sub>6</sub> multiferroic ceramics prepared by spark plasma sintering, J Alloys & Comp 649, 151-158 (2015)

Factor de impact =3.014– Q1

Autor principal: Nu

38. Lavinia-Petronela Curecheriu, Mirjana M Vijatovic Petrovic, Jelena D. Bobic, B.D. Stojanovic, Nonlinear properties of antimony-doped BaTiO<sub>3</sub> ceramics, Appl. Phys.A , 119, 681-686 (2015)

Factor de impact =1.444 – Q2

Autor principal: Da (prim autor)

39. Cristina Elena Ciomaga, Leontin Padurariu, Lavinia Curecheriu, Nicoleta Lupu, Isabelle Lisiecki, Marco Deluca, Sorin Tascu, Carmen Galassi, Liliana Mitoseriu, Using multi-walled carbon nanotubes in spark plasma sintered Pb(Zr<sub>0.47</sub>Ti<sub>0.53</sub>)O<sub>3</sub> ceramics for tailoring dielectric and tunability properties, Journal of Applied Physics, 116, 164110 (2014)

Factor de impact =2.185

Autor principal: Da (autor corespondent) – Q2

40. Lavinia-Petronela Curecheriu, Maria Teresa Buscaglia, Filippo Maglia, Umberto Anselmi-Tamburini, Vincenzo Buscaglia and Liliana Mitoseriu, Design tunable materials: ferroelectric-antiferroelectric composite with core-shell structure, Applied Physics Letters 105, 252901 (2014)

Factor de impact =3.515 - Q1

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41. Lavinia Curecheriu, Petronel Postolache, Maria Teresa Buscaglia, Vincenzo Buscaglia, Adelina Ianculescu, Liliana Mitoseriu, Novel magnetoelectric ceramic composites by control of the interface reactions in Fe<sub>2</sub>O<sub>3</sub>@BaTiO<sub>3</sub> core-shell structures, Journal of Applied Physics, 116, 084102 (2014)

Factor de impact =2.185 – Q2

Autor principal: Da (prim autor)

42. Zina Violeta Mocanu, Mirela Airimioaei, Cristina Elena Ciomaga, Lavinia Curecheriu, Florin Tudorache, Sorin Tascu, Alexandra R. Iordan, Mircea N. Palamaru, Liliana Mitoseriu, Investigation of the functional properties of  $Mg_xNi_{1-x}Fe_2O_4$  ceramics, J. Mater Sci 49,8, 3276-3286 (2014)

Factor de impact=2.305 - Q1

Autor principal: Nu

43. Mirela Airimioaei, Mircea N. Palamaru, Alexandra R. Iordan, Pascal Berthet, C. Decorse, Lavinia Curecheriu, Liliana Mitoseriu, Structural investigation and functional properties of  $Mg_xNi_{1-x}Fe_2O_4$  ferrites, Journal of American Ceramic Society, 97,2, 519-526 (2014)

Factor de impact=2.428 - Q1

Autor principal: Nu

44. Alexandra Neagu, Lavinia Curecheriu, Ana Cazacu, Liliana Mitoseriu, Impedance analysis and tunability of  $BaTiO_3$ -chitosan composites: towards active dielectrics for flexible electronics, Composites:Part B, 66, 109-116 (2014)

Factor de impact=2.602- Q1

Autor principal: Da (autor corespondent)

45. Ana Cazacu, Lavinia Curecheriu, Alexandra Neagu, Leontin Padurariu, Adrian Cernescu, Isabelle Lisiecki, Liliana Mitoseriu, Tunable gold-chitosan, nanocomposites by local field engineering, Applied Physics Letters, 102, 222903 (2013)

Factor de impact = 3.515

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46. Tiberiu Salaoru, Florica Matau, Sorin Tascu, Lavinia Curecheriu, Alexandru Stancu, Effect of thermal treatment on the magnetic properties of ceramic samples from eastern Romania clay deposits, Digest Journal of Nanomaterials and Biostructures, 8 (1), 335-346 (2013)

Factor de impact = 1.123 – Q3

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47. Felicia Gheorghiu, Lavinia Curecheriu, Adelina Ianculescu, Mihai Calugaru, Liliana Mitoseriu, Tunable dielectric characteristics of Mn-doped  $BiFeO_3$  multiferroic ceramics, Scripta Materialia 68, 305-308 (2013)

Factor de impact = 2.968- Q1

Autor principal: Da (autor corespondent)

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## **(g) Alte lucrări**

### **Conferințe invitate**

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2. Lavinia Curecheriu *Structure-property relationships in materials for dc-tunability applications*, PAM 8, 16-23 noiembrie 2025, Hamamatsu, Japonia
3. Lavinia Curecheriu, Petronel Postolache, Mihai Ciolan, George Stoian, Maria Teresa Buscaglia, *Tailoring functional properties of electroceramics by core-shell approach*, ICPAM 17, 16-23 noiembrie 2025, Hamamatsu, Japonia (plenary talk)
4. Lavinia Curecheriu, George Stoian, Maria Teresa Buscaglia, *Preparation and characterisation of functional graded ceramics obtained from core-shell particles*, ISyDMA 9, 5-10 mai 2025, Marrakech, Maroc
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6. Lavinia Curecheriu, *Size-dependent properties in BaTiO<sub>3</sub>-based ceramic*, International Conference on Minerals, Metallurgy and Materials, 22-23 Martie 2021, online (keynote)
7. Lavinia Curecheriu, Vlad Alexandru Lukacs, Teodora Matei, Leontin Pădurariu, Cristina Ciomaga, Liliana Mitoseriu, *Role of critical parameters (composition and phase superposition) on the electrocaloric properties of BaZr<sub>x</sub>Ti<sub>1-x</sub>O<sub>3</sub> ceramics*, 11th International Advances in Applied Physics & Materials Science Congress & Exhibition, 17- 23 Octombrie 2021, Oludeniz, Turcia
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