



## Lista de lucrări publicate în jurnale ISI

### 2024

1. Horchidan N., M. Airimioaei, G. Ababei, G. Stoian, I. Topală, M. Dobromir, M. Ignat, C.E. Ciomaga, M. Neamțu, *Novel piezoelectric  $x\text{NF}-(1-x)\text{PZT}$  materials for catalytic/photocatalytic removal of pollutants*, (2024) *Surfaces and Interfaces* 51, 104604, doi.org/10.1016/j.surfin.2024.104604
2. Lukacs, V.A., Stirbu, R., Condurache, O.A., Curecheriu, L.P., Airimioaei, M., Ciomaga, C.E., Stoian, G., Caruntu, G., Mitoseriu, L., Buscaglia, M.T., *Cuboidal vs equiaxed: The role of nanopowder assembly during  $\text{BaTiO}_3$  ceramic pressing step*, (2024) *Journal of Materials Science and Technology*, 189, pp. 13-24. DOI: 10.1016/j.jmst.2023.11.064
3. Turcan, I., Curecheriu, L.-P., Stoian, G., Mihaila, I., Ciomaga, C.-E., Mitoseriu, L., *Influence of sintering temperature on the electrical properties of  $\text{SrTiO}_3\text{-BaZrTiO}_3$  ceramics for energy storage applications*, (2024) *Ceramics International*, 50 (12), pp. 21898-21908. DOI: 10.1016/j.ceramint.2024.03.303
4. Horchidan, N., Curecheriu, L.P., Lukacs, V.A., Stirbu, R.S., Tufescu, F.M., Dumitru, I., Stoian, G., Ciomaga, C.E. *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* (2024) *Journal of the American Ceramic Society*, 107 (5), pp. 3230-3242. DOI: 10.1111/jace.19622

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5. Padurariu, L., Chamasemani, F.F., Brunner, R., Curecheriu, L.P., Lukacs, V.A., Stirbu, R.S., Ciomaga, C.E., Mitoseriu, L. *Analysis of local vs. macroscopic properties of porous  $\text{BaTiO}_3$  ceramics based on 3D reconstructed ceramic microstructures* (2023) *Acta Materialia*, 255, art. no. 119084. DOI: 10.1016/j.actamat.2023.119084
6. Mihai, L., Caruntu, G., Rotaru, A., Caruntu, D., Mykhailovych, V., Ciomaga, C.E., Horchidan, N., Stancalie, A., Marcu, A. *GHz—THz Dielectric Properties of Flexible Matrix-Embedded BTO Nanoparticles* (2023) *Materials*, 16 (3), art. no. 1292. DOI: 10.3390/ma16031292



7. Padurariu, L., Horchidan, N., Ciomaga, C.E., Curecheriu, L.P., Lukacs, V.A., Stirbu, R.S., Stoian, G., Botea, M., Florea, M., Maraloiu, V.A., Pintilie, L., Rotaru, A., Mitoseriu, L., *Influence of Ferroelectric Filler Size and Clustering on the Electrical Properties of (Ag-BaTiO<sub>3</sub>)-PVDF Sub-Percolative Hybrid Composites* (2023) ACS Applied Materials and Interfaces, 15 (4), pp. 5744-5759. DOI: 10.1021/acsami.2c15641

## 2022

8. Ciomaga, C.E., Curecheriu, L.P., Lukacs, V.A., Horchidan, N., Doroftei, F., Valois, R., Lheureux, M., Chambrier, M.H., Mitoseriu, L., *Optimization of Processing Steps for Superior Functional Properties of (Ba, Ca)(Zr, Ti)O<sub>3</sub> Ceramics* (2022) Materials, 15 (24), art. no. 8809. DOI: 10.3390/ma15248809

9. Curecheriu, L., Buscaglia, M.T., Lukacs, V.A., Padurariu, L., Ciomaga, C.E., *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* (2022) Materials, 15 (21), art. no. 7825. DOI: 10.3390/ma15217825

10. Ciomaga, C.E., Horchidan, N., Padurariu, L., Stirbu, R.S., Tiron, V., Tufescu, F.M., Topala, I., Condurache, O., Botea, M., Pintilie, I., Pintilie, L., Rotaru, A., Caruntu, G., Mitoseriu, L., *BaTiO<sub>3</sub> nanocubes-Gelatin composites for piezoelectric harvesting: Modeling and experimental study* (2022) Ceramics International, 48 (18), pp. 25880-25893. DOI: 10.1016/j.ceramint.2022.05.264

11. Lukacs, V.A., Airimioaei, M., Padurariu, L., Curecheriu, L.P., Ciomaga, C.E., Bencan, A., Drazic, G., Avakian, M., Jones, J.L., Stoian, G., Deluca, M., Brunner, R., Rotaru, A., Mitoseriu, L., *Phase coexistence and grain size effects on the functional properties of BaTiO<sub>3</sub> ceramics* (2022) Journal of the European Ceramic Society, 42 (5), pp. 2230-2247. DOI: 10.1016/j.jeurceramsoc.2021.12.024

12. Horchidan, N., Ciomaga, C.E., Curecheriu, L.P., Stoian, G., Botea, M., Florea, M., Maraloiu, V.A., Pintilie, L., Tufescu, F.M., Tiron, V., Rotaru, A., Mitoseriu, L., *Increasing Permittivity and Mechanical Harvesting Response of PVDF-Based Flexible Composites by Using Ag Nanoparticles onto BaTiO<sub>3</sub> Nanofillers* (2022) Nanomaterials, 12 (6), art. no. 934. DOI: 10.3390/nano12060934



13. Padurariu, L., Curecheriu, L.-P., Ciomaga, C.-E., Airimioaei, M., Horchidan, N., Cioclea, C., Lukacs, V.-A., Stirbu, R.-S., Mitoseriu, L., *Modifications of structural, dielectric and ferroelectric properties induced by porosity in BaTiO<sub>3</sub> ceramics with phase coexistence* (2022) Journal of Alloys and Compounds, 889, art. no. 161699. DOI: 10.1016/j.jallcom.2021.161699

## 2021

14. Lukacs, V.A., Caruntu, G., Condurache, O., Ciomaga, C.E., Curecheriu, L.P., Padurariu, L., Ignat, M., Airimioaei, M., Stoian, G., Rotaru, A., Mitoseriu, L., *Preparation and properties of porous BaTiO<sub>3</sub> nanostructured ceramics produced from cuboidal nanocrystals* (2021) Ceramics International, 47 (13), pp. 18105-18115. DOI: 10.1016/j.ceramint.2021.03.128

15. Racles, C., Asandulesa, M., Tiron, V., Tugui, C., Vornicu, N., Ciubotaru, B.-I., Mičušík, M., Omastová, M., Vasiliu, A.-L., Ciomaga, C., *Elastic composites with PDMS matrix and polysulfone-supported silver nanoparticles as filler* (2021) Polymer, 217, art. no. 123480. DOI: 10.1016/j.polymer.2021.123480

16. Horchidan, N., Curecheriu, L., Ciomaga, C.E., Lupu, N., Mitoseriu, L., *Preparation and Functional Properties of BaTiO<sub>3</sub>-BaGeO<sub>3</sub> Ceramics* (2021) IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 68 (2), art. no. 9079543, pp. 279-287. DOI: 10.1109/TUFFC.2020.2990755

## 2020

17. Curecheriu, L., Lukacs, V.A., Padurariu, L., Stoian, G., Ciomaga, C.E., *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*, (2020) Materials, 13 (15), art. no. 3324. DOI: 10.3390/ma13153324

18. Horchidan, N., Padurariu, L., Ciomaga, C.E., Curecheriu, L., Airimioaei, M., Doroftei, F., Tufescu, F., Mitoseriu, L., *Room temperature phase superposition as origin of enhanced functional properties in BaTiO<sub>3</sub> - based ceramics* (2020) Journal of the European Ceramic Society, 40 (4), pp. 1258-1268. DOI: 10.1016/j.jeurceramsoc.2019.11.088

19. Lukacs, V.A., Turcan, I., Padurariu, L., Curecheriu, L., Cernescu, A., Stoian, G., Ciomaga, C.E., Tufescu, F., Lupu, N., Mitoseriu, L., *Nonlinear dielectric properties of BaTiO<sub>3</sub> - Silver*



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26. Turcan, I., Lukacs, V.A., Curecheriu, L., Padurariu, L., Ciomaga, C.E., Airimioaei, M., Stoian, G., Lupu, N., Mitoseriu, L., *Microstructure and dielectric properties of Ag-BaTiO<sub>3</sub> composite ceramics* (2018) *Journal of the European Ceramic Society*, 38 (16), pp. 5420-5429. DOI: 10.1016/j.jeurceramsoc.2018.08.002

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28. Padurariu, C., Padurariu, L., Curecheriu, L., Ciomaga, C., Horchidan, N., Galassi, C., Mitoseriu, L., *Role of the pore interconnectivity on the dielectric, switching and tunability properties of PZTN ceramics* (2017) *Ceramics International*, 43 (7), pp. 5767-5773. DOI: 10.1016/j.ceramint.2017.01.123
29. Gheorghiu, F., Padurariu, L., Airimioaei, M., Curecheriu, L., Ciomaga, C., Padurariu, C., Galassi, C., Mitoseriu, L., *Porosity-dependent properties of Nb-doped  $Pb(Zr,Ti)O_3$  ceramics* (2017) *Journal of the American Ceramic Society*, 100 (2), pp. 647-658. DOI: 10.1111/jace.14587
30. Stanculescu, R.E., Horchidan, N., Galassi, C., Asandulesa, M., Padurariu, L., Ciomaga, C.E., Mitoseriu, L., *Porous  $(Ba,Sr)TiO_3$  ceramics for tailoring dielectric and tunability properties: Modelling and experiment* (2017) *Processing and Application of Ceramics*, 11 (4), pp. 235-246. DOI: 10.2298/PAC1704235S
31. Airimioaei, M., Buscaglia, M.T., Tredici, I., Anselmi-Tamburini, U., Ciomaga, C.E., Curecheriu, L., Bencan, A., Buscaglia, V., Mitoseriu, L., *SrTiO<sub>3</sub>-BaTiO<sub>3</sub> nanocomposites with temperature independent permittivity and linear tunability fabricated using field-assisted sintering from chemically synthesized powders* (2017) *Journal of Materials Chemistry C*, 5 (35), pp. 9028-9036. DOI: 10.1039/c7tc02629c



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