

LISTA

lucrărilor științifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

Filme epitaxiale obținute prin metode chimice utilizate în arhitecturi supraconductoare pe bază de $YBa_2Cu_3O_{7-x}$

Universitatea Tehnică din Cluj-Napoca, Facultatea de Ingineria Materialelor și a Mediului

Conducător științific: Prof. dr.ing. Lelia Ciontea

Susținere publică: 23.09.2011.

B – Cărți și capitole în cărți publicate în ultimii 10 ani

CĂRȚI

1. **Năsui Mircea**, Șonher Ramona-Bianca, Mesaros Amalia-Zorica, Sinteza și caracterizarea materialelor ceramice multifuncționale, Îndrumător de laborator, UTPRESS Cluj-Napoca, 2022, ISBN 978-606-737-594-7
<https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/594-7.pdf>

CAPITOLE DE CARTE

1. **Năsui Mircea**, Capitolul 2. Filme supraconductoare oxidice obținute prin metode chimice” Titlu cărții: Filme subțiri: Creștere și proprietăți, U.T.PRESS Cluj - Napoca, 2025, ISBN 978-606-737-751-4,
<https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/751-4.pdf>

C – Lucrări indexate ISI/BDI publicate în ultimii 10 ani

c1) Articole / studii publicate la conferințe indexate sau în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. **M. Nasui**, R.B. Sonher, T. Petrisor, E. Ware, E.G. Tuns, R. Pacurar, M.S. Gabor, New approach for oriented BaTiO₃ thin films with piezoelectric properties through chemical synthesis, Journal of Alloys and Compounds, 1036,182008, 2025
2. B. V. Neamtu, **M. Nasui**, G. Cupa, E. Ware, F. Popa, T. F. Marinca, and I. Chicinas, "Effects of adding carbonyl Fe or Mn-Zn ferrite powders to fibre-based soft magnetic composites prepared via hybrid cold sintering/spark plasma sintering," *Journal of Materials Research and Technology-Jmr&T*, vol. 28, pp. 2969-2979, Jan-Feb 2024.
3. A. Mesaros, A. Garzón, **M. Nasui**, R. Bortnic, B. Vasile, O. Vasile, F. Iordache, C. Leostean, L. Ciontea, J. Ros, and O. Pana, "Insight into synthesis and characterisation of Ga_{0.9}Fe_{2.1}O₄ superparamagnetic NPs for biomedical applications," *Scientific Reports*, vol. 13, Oct 2023.

4. B. Neamțu, **M. Năsui**, G. Stoian, F. Popa, T. Marinca, P. Bere, N. Lupu, and I. Chicinaș, "Influence of coating process on the magnetic properties of cold-sintered CoFeSiB@ BaTiO₃ fibres based soft magnetic composites," *Ceramics International*, vol. 49, pp. 40914-40923, 2023. **autor corespondent** – Q1
5. Bogdan Viorel Neamtu, Florin Popa, Ecaterina Ware, Traian Florin Marinca, Mihai Sebastian Gabor, Florin Pop Piglesan, **Mircea Nasui**, *Hydrothermal Deposition of ZnO Layer on Fe-Based amorphous Fibres Used for the Preparation of Cold Sintered Fibre-Based Soft Magnetic Composites*, **Coatings**, 12 (2022) 1527. – **autor corespondent** – Q2 ([link](#))
6. **Nasui, M.**; Sonher, R.B.; Ware, E.; Daniel, A.; Petrisor, T., Jr.; Gabor, M.S.; Ciontea, L.; Petrisor, T., *Morphological and Structural Evolution of Chemically Deposited Epitaxially LaNiO₃ Thin Films*. **Coatings** 11 (2021) 1376– Q2 ([link](#))
7. R.B Sonher, **M Nasui**, MS Gabor, T Petrisor Jr, L Ciontea, T Petrisor, *Effect of glycerol on the thermal decomposition behavior of nickel propionate-based precursor*, **Journal of Analytical and Applied Pyrolysis** 159 (2021) 105289. – **autor corespondent** – Q1 ([link](#))
8. **M. Nasui**, R. B. Sonher, T. Petrisor, S. Varodi, C. Pop, and L. Ciontea, "Development of a Fluorine-Free Polymer-Assisted-Deposition Route for YBa₂Cu₃O_{7-x} Superconducting Films," **Coatings**, 10 (2020) 966. – Q2 ([link](#))
9. B.V. Neamțu, A. Belea, F. Popa, E. Ware, T.F. Marinca, I. Vintiloiu, C. Badea, M. Pszola, **M. Nasui**, "Properties of soft magnetic composites based Fe fibres coated with SiO₂ by hydrothermal method", **Journal of Alloys and Compounds** 826 (2020) 154222. – **autor corespondent** – Q1 ([link](#))
10. **M. Nasui**, R. B. Mos, M. S. Gabor, T. Petrisor, A. Tomolea, E. Ware, F. Goga, A. Mesaros, and L. Ciontea, "New versatile synthesis for low dimension superparamagnetic YBa₂Cu₃O_{7-x} nanoparticles," *Ceramics International* 43 (2017) 8845-8849. – Q1 ([link](#))
11. **M. Nasui**, T. Petrisor Jr., R.B. Mos, M.S. Gabor, A. Mesaros, F. Goga, L. Ciontea, T. Petrisor, *Fluorine-free propionate route for the chemical solution deposition of YBa₂Cu₃O_{7-x} superconducting films*, *Ceramics International*, 41 (2015) 4416–4421. – Q1 ([link](#))
12. **M. Nasui**, T. Petrisor Jr., R.B. Mos, A. Mesaros, R.A. Varg, B.S. Vasile, T. Ristoiu, L. Ciontea, T. Petrisor, *Synthesis, crystal structure and thermal decomposition kinetics of yttrium propionate*, *Journal of Analytical and Applied Pyrolysis* 106 (2014) 92–98. – Q1 ([link](#))
13. B. Neamțu, **M. Năsui**, G. Cupa, E. Ware, F. Popa, T. Marinca, and I. Chicinaș, "Effects of adding carbonyl Fe or Mn–Zn ferrite powders to fibre-based soft magnetic composites prepared via hybrid cold sintering/spark plasma sintering," *Journal of Materials Research and Technology*, vol. 28, pp. 2969-2979, 2024.
14. A. Mesaros, A. Garzón, **M. Nasui**, R. Bortnic, B. Vasile, O. Vasile, F. Iordache, C. Leostean, L. Ciontea, and J. Ros, "Insight into synthesis and characterisation of Ga_{0.9}Fe_{2.1}O₄ superparamagnetic NPs for biomedical applications," *Scientific Reports*, vol. 13, p. 18175, 2023.
15. Andrada Daniel, **Mircea Nasui**, Traian Petrisor Jr, Ramona Bianca Sonher, Andrea Augieri, Cornelia Pop, Anna Palau, Angelo Vannozzi, Giuseppe Celentano, Lelia Ciontea, Traian Petrisor, *Investigation of diethanolamine (DEA) as a chelating agent in the fabrication of fluorine-free propionate route YBa₂Cu₃O₇*

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16. Nicoleta Cobîrzan, Gyorgy Thalmaier, Anca-Andreea Balog, Horia Constantinescu, Andrei Ceclan, **Mircea Nasui**, *Volcanic Tuff as Secondary Raw Material in the Production of Clay Bricks*, **Materials** 14 (22), (2021) 6872 – Q1 ([link](#))
17. D. Ourdani, Y. Roussigné, R. B. Mos, **M. Nasui**, S. M. Chérif, M. S. Gabor, and M. Belmeguenai *Hf thickness dependence of perpendicular magnetic anisotropy, damping and interfacial Dzyaloshinskii-Moriya interaction in Pt/CoFe/Hf/HfO₂*, **Phys. Rev. Materials** 5 (2021) 084404. – Q2 ([link](#))
18. R. B. Sonher, R. A. Varga, **M. Nasui**, T. Petrisor, M. S. Gabor, M. Senila, A. Rufoloni, and L. Ciontea, "Single Source Precursor for PAD-LaMnO₃ Thin Films," **Crystals**, 10 (2020) 851. – Q2 ([link](#))
19. G Thalmaier, N Cobîrzan, AA Balog, H Constantinescu, M Streza, **M Nasui**, BV Neamtu, *Influence of sawdust particle size on fired clay brick properties*, **Materiales de Construcción** 70 (2020) 215. – Q3 ([link](#))
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21. M. S. Gabor, T. Petrisor, **M. Nasui**, M. A. Nsibi, J. Nath, and I. M. Miron, "Spin-orbit Torques and Magnetization Switching in Perpendicularly Magnetized Epitaxial Pd/Co₂FeAl/MgO Structures," **Physical Review Applied**, 13 (2020) 054039. – Q1 ([link](#))
22. I. Benguetat-El Mokhtari, D. Ourdani, Y. Roussigne, R. B. Mos, **M. Nasui**, F. Kail, L. Chahed, S. M. Cherif, A. Stashkevich, M. Gabor, and M. Belmeguenai, "Perpendicular magnetic anisotropy and interfacial Dzyaloshinskii-Moriya interaction in as grown and annealed X/Co/Yultrathin systems," **Journal of Physics-Condensed Matter**, 32 (2020) 495802. – Q3 ([link](#))
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26. L. Piperno, A. A. Armenio, A. Vannozzi, V. Galluzzi, V. Pinto, F. Rizzo, A. Augieri, A. Mancini, A. Rufoloni, G. Celentano, R. B. Mos, L. Ciontea, **M. Nasui**, M. Gabor, T. Petrisor, and G. Sotgiu, "Surface Decoration as a Prospective Artificial Pinning Strategy in Superconducting YBa₂Cu₃O_{7-x} Films," **IEEE Transactions on Applied Superconductivity** 28 (2018) 1-5. – Q3 ([link](#))

27. M Belmeguenai, Y Roussigné, H Bouloussa, SM Chérif, A Stashkevich, **M Nasui**, MS Gabor, A Mora-Hernández, B Nicholson, O-O Inyang, AT Hindmarch, L Bouchenoire, *Thickness Dependence of the Dzyaloshinskii-Moriya Interaction in Co₂FeAl Ultrathin Films: Effects of Annealing Temperature and Heavy-Metal Material*, **Physical Review Applied** 9 (2018) 044044. – Q1 ([link](#))
28. B.V. Neamțu, **M. Nasui**, T.F. Marinca, F. Popa, I. Chicinaș, *Soft magnetic composites based on hybrid coated Fe-Si nanocrystalline powders*, **Surface & Coatings Technology** 330 (2017) 219–227. – Q1 ([link](#))
29. N. P. Kostiantyn Torokhtii, Anna Frolova, Valentina Pinto, Achille Angrisani Armenio, Laura Piperno, Giuseppe Celentano, Traian Petrisor, Lelia Ciontea, Ramona B. Mos, **Mircea Nasui**, Giovanni Sotgiu, and E. Silva, "Microwave measurements of pinning properties in chemically deposited YBCO/BZO films," **IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY** 27 (2017) 8000405– Q3 ([link](#))
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34. R.-A. Bortnic, F. Goga, A. Mesaroș, **M. Nasui**, B. S. Vasile, D. Roxana, And A. Avram, "Synthesis of Cobalt Ferrite Nanoparticles Via A Sol-Gel Combustion Method," *Studia Universitatis Babes-Bolyai, Chemia*, 61 (2016). – Q4 ([link](#))
35. A. Mesaros, R. B. Mos, **M. Nasui**, T. Petrisor, D. Toloman, O. R. Vasile, F. Goga, L. Ciontea, "Insights into the europium-doped yttrium oxalate thermal decomposition mechanism," **Journal of Analytical and Applied Pyrolysis**, 116 (2015) 96-101. – Q1 ([link](#))
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37. A. Mesaros, D. Toloman, M. Nasui, R. B. Mos, T. Petrisor, B. S. Vasile, V. A. Surdu, I. Perhaita, A. Biris, O. Pana, "A valence states approach for luminescence enhancement by low dopant concentration in Eu-doped ZnO nanoparticles," *Journal of Materials Science*, 50 (2015) 6075-6086. – Q2 ([link](#))
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c2) Studii publicate la conferințe sau în reviste indexate în baze de date internaționale de referință în domeniul (DBLP, ACM, IEEE, SCOPUS, etc)¹

1. **Autor**, Coautori. Titlul lucrării. *Proceedings of...*, luna, ziua, anul, locul, pp. pag, ISBN [DBLP], [IEEE].
2. **Autor**, Coautori. Titlul lucrării. *Proceedings of...*, luna, ziua, anul, locul, pp. pag, ISBN [SCOPUS].
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D – Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

E – Brevete obținute pentru întreaga activitate

1. **Mircea NASUI**, Traian PETRIȘOR Jr, Ramona Bianca MOȘ, Amalia MESAROȘ, Mihai Sebastian GABOR, Lelia CIONTEA, Traian PETRIȘOR; Titlul invenției: **Metoda chimică de obținere a filmelor epitaxiale de manganit de lantan dopat cu stronțiu $\text{La}_{0.66}\text{Sr}_{0.33}\text{MnO}_3$ (LSMO)** – RO 131325 B1

Lucrare premiată: **Medalia de aur**- AsialInvent-Singapore (2020) ; **Diploma de excelență și Medalia de Aur** - Salonul PRO INVENT (2019); **Medalia de Bronz - Salonul** EUROINVENT (2019); **Diploma de onoare** – Salonul INVENTICA (2019); **Diploma de excelență și Medalia de Aur** PRO INVENT (2018); **Diploma de Excelență** - Cadet INOVA (2018).

2. **Mircea NASUI**, Ramona Bianca MOȘ, Mihai Sebastian GABOR, Lelia CIONTEA, Amalia MESAROȘ, Titlu: Procedeu chimic de obținere a filmelor subțiri cu structură spinelică de GaFe_2O_4 (GFO) Cerere brevet de invenție a2024/ 00540

Data

Semnătura

¹ indexate în:

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