

Universitatea Tehnică din Cluj-Napoca  
Facultatea de Ingineria Materialelor și a Mediului  
Departamentul Fizică și Chimie  
Sl.dr.ing. Mircea Năsui

## LISTA

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A- 10 lucrări reprezentative:

1. **M. Nasui**, R.B. Mos, T. Petrisor Jr., M.S. Gabor, R. Varga, L. Ciontea, T. Petrisor, “*Synthesis, crystal structure and thermal decomposition of a new copper propionate [Cu(CH<sub>3</sub>CH<sub>2</sub>COO)<sub>2</sub>] × 2H<sub>2</sub>O*”, *Journal of Analytical and Applied Pyrolysis*, 92 (2011) 439-444. - **Q1**  
<https://www.sciencedirect.com/science/article/abs/pii/S0165237011001483>
2. **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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> nanoparticles" *Ceramics International* 43 (2017) 8845-8849. - **Q1**  
<https://www.sciencedirect.com/science/article/abs/pii/S0272884217306120>
3. **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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> superconducting films*, *Ceramics International*, 41 (2015) 4416–4421.- **Q1**  
<https://www.sciencedirect.com/science/article/abs/pii/S0272884214018975>
4. 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 SiO<sub>2</sub> by hydrothermal method*”, *Journal of Alloys and Compounds* 826 (2020) 154222 - **corresponding author - Q1**  
<https://www.sciencedirect.com/science/article/abs/pii/S0925838820305855>
5. **M. Nasui**, C. Bogatan (Pop), L. Ciontea, T. Petrisor, *Synthesis, crystal structure modeling and thermal decomposition of yttrium propionate [Y<sub>2</sub>(CH<sub>3</sub>CH<sub>2</sub>COO)<sub>6</sub>·H<sub>2</sub>O]·3.5H<sub>2</sub>O*, *Journal of Analytical and Applied Pyrolysis*, 97 (2012) 88-93. - **Q1**  
<https://www.sciencedirect.com/science/article/abs/pii/S0165237012000952>
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 LaNiO<sub>3</sub> Thin Films*” *Coatings* 2021, 11, 1376. doi: 10.3390/coatings11111376. - **Q2**  
<https://www.mdpi.com/2079-6412/11/11/1376>

## Listă lucrări candidat Mircea Năsui

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7. **M. Nasui**, T. Petrisor Jr., R.B. Mos, M.S. Gabor, T. Ristoiu, A. Rufoloni, L. Ciontea, T. Petrisor, *Precursor chemistry for the solution deposition of epitaxial  $La_{0.66}Sr_{0.33}MnO_3$  (LSMO) thin films*, *Thin Solid Films*, 918 (2010) 4753-4756. - **Q2**  
<https://www.sciencedirect.com/science/article/abs/pii/S0040609009020586>
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  $YBa_2Cu_3O_{7-x}$  Superconducting Films," *Coatings*, 10 (2020) 966. - **Q2**  
<https://www.mdpi.com/2079-6412/10/10/966>
9. **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**  
<https://www.sciencedirect.com/science/article/abs/pii/S0165237014000060>
10. **Mircea NASUI**, Traian PETRIȘOR Jr, Ramona Bianca MOȘ, Amalia MESAROȘ, Mihai Sebastian GABOR, Lelia CIONTEA, Traian PETRIȘOR, Tittlul invenției: Metoda chimică de obținere a filmelor epitaxiale de manganit de lantan dopat cu stronțiu  $La_{0.66}Sr_{0.33}MnO_3$  (LSMO) - nr. RO 131325 B1- **Brevet de invenție**  
<https://www.webofscience.com/wos/diidw/full-record/DIIDW:2016525392>

### **B – Teza de doctorat:**

**Năsui Mircea:** *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.

### **C – 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  $La_{0.66}Sr_{0.33}MnO_3$  (LSMO)* – RO 131325 B1

Lucrare premiată: **Medalia de aur-** AsiaInvent-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).

### D- Cărți/capitole în cărți publicate

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>

### E – Lista completă- Lucrări indexate ISI/BDI publicate

#### **E1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)**

1. 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.
2. 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<sub>0.9</sub>Fe<sub>2.1</sub>O<sub>4</sub> superparamagnetic NPs for biomedical applications," *Scientific Reports*, vol. 13, Oct 2023.
3. 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@ BaTiO<sub>3</sub> fibres based soft magnetic composites," *Ceramics International*, vol. 49, pp. 40914-40923, 2023. **autor corespondent** – Q1
4. 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](#))
5. **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 LaNiO<sub>3</sub> Thin Films*. *Coatings* 11 (2021) 1376– Q2 ([link](#))
6. 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](#))
7. **M. Nasui**, R. B. Sonher, T. Petrisor, S. Varodi, C. Pop, and L. Ciontea, "Development of a Fluorine-Free Polymer-Assisted-Deposition Route for YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Superconducting Films," *Coatings*, 10 (2020) 966. – Q2 ([link](#))

8. 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 SiO<sub>2</sub> by hydrothermal method*”, *Journal of Alloys and Compounds* 826 (2020) 154222. – autor corespondent – Q1 ([link](#))
9. **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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> nanoparticles," *Ceramics International* 43 (2017) 8845-8849. – Q1 ([link](#))
10. **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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> superconducting films*, *Ceramics International*, 41 (2015) 4416–4421. – Q1 ([link](#))
11. **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](#))
12. **M. Nasui**, C. Bogatan (Pop), L. Ciontea, T. Petrisor, *Synthesis, crystal structure modeling and thermal decomposition of yttrium propionate [Y<sub>2</sub>(CH<sub>3</sub>CH<sub>2</sub>COO)<sub>6</sub>·H<sub>2</sub>O]·3.5H<sub>2</sub>O*, *Journal of Analytical and Applied Pyrolysis*, 97 (2012) 88-93. – Q1 ([link](#))
13. **M. Nasui**, R.B. Mos, T. Petrisor Jr., M.S. Gabor, R. Varga, L. Ciontea, T. Petrisor, “*Synthesis, crystal structure and thermal decomposition of a new copper propionate [Cu(CH<sub>3</sub>CH<sub>2</sub>COO)<sub>2</sub>] × 2H<sub>2</sub>O*”, *Journal of Analytical and Applied Pyrolysis*, 92 (2011) 439-444. – Q1 ([link](#))
14. **M. Nasui**, T. Petrisor Jr., R.B. Mos, M.S. Gabor, T. Ristoiu, A. Rufoloni, L. Ciontea, T. Petrisor, *Precursor chemistry for the solution deposition of epitaxial La<sub>0.66</sub>Sr<sub>0.33</sub>MnO<sub>3</sub> (LSMO) thin films*, *Thin Solid Films*, 918 (2010) 4753-4756. – Q3 ([link](#))
15. 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.
16. 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<sub>0.9</sub>Fe<sub>2.1</sub>O<sub>4</sub> superparamagnetic NPs for biomedical applications," *Scientific Reports*, vol. 13, p. 18175, 2023.
17. 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> (YBCO) thin films* , *Superconductor Science and Technology* 35 (5), (2022) 054010. – Q2 ([link](#))
18. 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](#))
19. 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/HfO<sub>2</sub>*, **Phys. Rev. Materials** 5 (2021) 084404. – Q2 ([link](#))
20. 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-LaMnO<sub>3</sub> Thin Films," **Crystals**, 10 (2020) 851. – Q2 ([link](#))
21. 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](#))
22. N. Cobirzan, A. A. Balog, G. Thalmaier, **M. Nasui**, C. Munteanu, and F. Babota, "Microscopical and Macroscopical Analysis of Recovered Bricks for Assessing Their Reusability in Masonry Buildings," in 13th **International Conference Interdisciplinarity in Engineering**. vol. 46, L. Moldovan and A. Gligor, Eds., ed, (2020) 144-149. ([link](#))
23. 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/Co<sub>2</sub>FeAl/MgO Structures," **Physical Review Applied**, 13 (2020) 054039. – Q1 ([link](#))
24. I. Benguettat-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](#))
25. I. Benguettat-El Mokhtari, D. Ourdani, Y. Roussigne, R. B. Mos, **M. Nasui**, S. M. Cherif, A. Stachkevich, M. S. Gabor, and M. Belmeguenai, "Investigation of the correlation between perpendicular magnetic anisotropy, spin mixing conductance and interfacial Dzyaloshinskii-Moriya interaction in CoFeB-based systems," **Journal of Physics D-Applied Physics**, 53 (2020) 505003. – Q2 ([link](#))
26. Gabor, M.S., **M. Nasui**, and A. Timar-Gabor, *Perpendicular magnetic anisotropy in Pt/Co-based full Hensler alloy/MgO thin-film structures*, **Physical Review B**, 100 (2019) 14. – Q2 ([link](#))
27. Belmeguenai, M., Y. Roussigne, S. M. Cherif, A. Stashkevich, T. Petrisor, **M. Nasui**, and M. S. Gabor , *Influence of the capping layer material on the interfacial Dzyaloshinskii-Moriya interaction in Pt/Co/capping layer structures probed by Brillouin light scattering*, **Journal of Physics D-Applied Physics**, 52 (2019) 12. – Q2 ([link](#))
28. 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Films," **IEEE Transactions on Applied Superconductivity** 28 (2018) 1-5. – Q3 ([link](#))
29. 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 Co<sub>2</sub>FeAl Ultrathin Films: Effects of Annealing Temperature and Heavy-Metal Material*, **Physical Review Applied** 9 (2018) 044044. – Q1 ([link](#))
30. 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](#))

31. 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](#))
32. M. S. Gabor, T. Petrisor, R. B. Mos, **M. Nasui**, and C. Tiusan, "Interlayer exchange coupling in perpendicularly magnetized Pt/Co/Ir/Co/Pt structures," *Journal of Physics D-Applied Physics*, vol. 50, Nov (2017) 465004. – Q2 ([link](#))
33. R. B. Mos, T. Petrisor, **M. Nasui**, A. Mesaros, M. S. Gabor, M. Senila, E. Ware, L. Ciontea, "Epitaxial La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> nanostructures obtained by polymer-assisted surface decoration (PASD)," *Materials Letters*, 171 (2016) 281-284. – Q2 ([link](#))
34. M. S. Gabor, T. Petrisor Jr., R. B. Mos, A. Mesaros, **M. Nasui**, M. Belmeguenai, F. Zighem and C Tiusan, "Spin-orbit torques and magnetization switching in W/Co<sub>2</sub>FeAl/MgO structures," *J. Phys. D: Appl. Phys.* 49 (2016) 365003 (7pp). – Q2 ([link](#))
35. T. Dippong, E. A. Levei, C. Tanaselia, M. Gabor, **M. Nasui**, L. Barbu Tudoran, G. Borodi, "Magnetic properties evolution of the Co<sub>x</sub>Fe<sub>3-x</sub>O<sub>4</sub>/SiO<sub>2</sub> system due to advanced thermal treatment at 700 °C and 1000 °C," *Journal of Magnetism and Magnetic Materials*, 410 (2016) 47-54. – Q3 ([link](#))
36. R.-A. Bortnic, F. Goga, A. Mesaros, **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](#))
37. 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](#))
38. R. B. Mos, **M. Nasui**, T. Petrisor, A. Mesaros, L. Ciontea, "The thermal decomposition of metal-organic precursors for epitaxial growth of SrZrO<sub>3</sub> thin films," *Journal of Analytical and Applied Pyrolysis*, 115 (2015) 255-261. – Q1 ([link](#))
39. 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](#))
40. R. B. Mos, T. Petrisor, **M. Nasui**, A. Calleja, T. Puig, and L. Ciontea, "Enhanced structural and morphological properties of Gd-doped CeO<sub>2</sub> thin films obtained by polymer-assisted deposition," *Materials Letters* 124 (2014) 306-309. – Q2 ([link](#))
41. T. Petrisor Jr., R. B. Mos, **M. Nasui**, M. S. Gabor, A. Augieri, G. Celentano, D. De Felicis, E. Bemporad, L. Ciontea, T. Petrisor, "The Vortex Path Model Analysis of the Field Angle Dependence of the Critical Current Density in Nanocomposite YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>-BaZrO<sub>3</sub> Films Obtained by Low Fluorine Chemical Solution Deposition", *J Supercond Nov Magn* 27 (2014) 2493–2500. – Q4 ([link](#))
42. M. M. Venter, V. N. Bercean, F. Goga, **M. Nasui** „Spectroscopic and thermal studies on the iron(III) mercapto-thiadiazol-thiosuccinate precursor for iron(III) oxides”, *Rev. Roum. Chim.* 59(11-12) (2014) 989-996. – Q4 ([link](#))

43. R.B. Mos, **M. Nasui**, T. Petrisor Jr., M.S. Gabor, R. Varga, L. Ciontea, „*Synthesis, crystal structure and thermal decomposition of  $Zr_6O_4(OH)_4(CH_3CH_2COO)_{12}$* ” *Journal of Analytical and Applied Pyrolysis*, 97 (2012) 137-142. – Q1 ([link](#))
44. C. Bogăţan, **M. Năsui**, T. Petrişor Jr, M. Gabor, T. Ristoiu, L. Ciontea, T. Petrişor, "On the way of growing YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> superconducting thin films from a fluorin-free water based propionate precursor solution," *Studia Universitatis Babeş-Bolyai Chemia*, (2012) 13-22. – Q4 ([link](#))
45. Amalia Mesaros, **Mircea Nasui**, Traian Petrisor Jr., Lelia Ciontea, Traian Petrisor, "Synthesis of YTaO<sub>4</sub>:Nb thin films by chemical solution deposition", *Journal of Alloys and Compounds*, 543 (2012) 221–226. – Q1 ([link](#))
46. R.B. Mos, **M. Nasui**, T. Petrisor Jr., M.S. Gabor, R. Varga, L. Ciontea, T. Petrisor, „*Synthesis, crystal structure and thermal decomposition study of a new barium acetato-propionate complex*”, *Journal of Analytical and Applied Pyrolysis* 92 (2011) 445-449. – Q1 ([link](#))
47. L. Ciontea, T. Ristoiu, R.B. Mos, **M. Nasui**, T. Petrisor Jr., M.S. Gabor , A. Mancini, A. Rufoloni, G. Celentano, T. Petrisor, “*Epitaxial growth of CeO<sub>2</sub> thin film on cube textured NiW substrate using a propionate-based metalorganic deposition (MOD) method*” *Materials Chemistry and Physics*, 133 (2012) 772-778. – Q2 ([link](#))
48. L. Ciontea, **M. Nasui**, T. Petrisor Jr., R.B. Mos, M.S. Gabor, R.A. Varga, T. Petrisor, “*Synthesis, crystal structure and thermal decomposition of  $[La_2(CH_3CH_2COO)_6(H_2O)_3]3.5H_2O$  precursor for high-k La<sub>2</sub>O<sub>3</sub> thin films deposition*”, *Materials Research Bulletin*, 45 (2010) 1203–1208. – Q2 ([link](#))
49. R.B. Mos, M.S. Gabor, **M. Nasui**, T. Petrisor Jr., C. Badea, A Rufoloni, L. Ciontea, T. Petrisor, *Synthesis of “Epitaxial BaZrO<sub>3</sub> Thin Films by Chemical Solution” Thin Solid Films*, 518 (2010) 4714-4717. – Q3 ([link](#))

### E2) Articole/Studii publicate în jurnale indexate BDI și la conferințe indexate în baze de date internaționale (BDI) de referință în domeniul Chimie (DBLP, ACM, IEEE, SCOPUS)<sup>1</sup>

1. **M. Năsui**, A. C. Fulger, and M. Munteanu, "Determination of Organic Compounds in the Archaeological Context, Using Mass Spectrometry," *Acta Electrotehnica*, vol. 61, 2020. ([link](#))
2. T. Ristoiu, T. Petrisor Jr, M. S. Gabor, **M. Nasui**, B. Mos, L. Ciontea, T. Petrisor, "Atomic force microscopy study of nanocrystalline ceria thin films," *Journal of Physics: Conference Series*, vol. 182, 2009. ([link](#))
3. G. Thalmaier, N. A. Sechel, I. Vida-Simiti, **M. Nasui**, and N. Cobîrzan, "Micron porous copper powder through vacuum dealloying," *Materials Today: Proceedings*, 72 (2023) 560-564, ([link](#))

### F - Compuși supramoleculari noi indexati in baza de date Cambridge Crystallographic Data Centre (CCDC).

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<sup>1</sup> indexate în:

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## Listă lucrări candidat Mircea Năsui

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Sl.dr.ing. Nasui Mircea