

Universitatea Tehnică din Cluj-Napoca  
Facultatea de Ingineria Materialelor și a Mediului  
Departamentul Fizică și Chimie  
Asist.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  $[Cu(CH_3CH_2COO)_2] \times 2H_2O$ ", *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  $YBa_2Cu_3O_{7-x}$  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  $YBa_2Cu_3O_{7-x}$  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  $[Y_2(CH_3CH_2COO)_6 \cdot H_2O] \cdot 3.5H_2O$ ", *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  $LaNiO_3$  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. 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**
2. 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](#))
3. **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](#))
4. 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](#))
5. **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](#))
6. 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](#))
7. **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](#))
8. **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](#))
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 ([link](#))

10. **M. Nasui**, C. Bogatan (Pop), L. Ciontea, T. Petrisor, *Synthesis, crystal structure modeling and thermal decomposition of yttrium propionate  $[Y_2(CH_3CH_2COO)_6 \cdot H_2O] \cdot 3.5H_2O$* , **Journal of Analytical and Applied Pyrolysis**, 97 (2012) 88-93. – Q1 ([link](#))

11. **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  $[Cu(CH_3CH_2COO)_2] \times 2H_2O$* ”, **Journal of Analytical and Applied Pyrolysis**, 92 (2011) 439-444. – Q1 ([link](#))

12. **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. – Q3 ([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. Mesáros, 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  $Ga_{0.9}Fe_{2.1}O_4$  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  $YBa_2Cu_3O_7$  (YBCO) thin films*, **Superconductor Science and Technology** 35 (5), (2022) 054010. – Q2 ([link](#))

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  $Pt/CoFe/Hf/HfO_2$* , **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  $PAD-LaMnO_3$  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](#))

20. 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](#))

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/Co<sub>2</sub>FeAl/MgO Structures," *Physical Review Applied*, 13 (2020) 054039. – Q1 ([link](#))
22. 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](#))
23. 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](#))
24. 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](#))
25. 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](#))
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 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](#))
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 Co<sub>2</sub>FeAl 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](#))
30. 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](#))
31. 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](#))

32. 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](#))

33. T. Dippong, E. A. Levei, C. Tanaselia, M. Gabor, **M. Nasui**, L. Barbu Tudoran, G. Borodi, "Magnetic properties evolution of the *CoxFe<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](#))

34. 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](#))

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](#))

36. 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](#))

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](#))

38. 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](#))

39. 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](#))

40. 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](#))

41. R.B. Mos, **M. Nasui**, T. Petrisor Jr., M.S. Gabor, R. Varga, L. Ciontea, „Synthesis, crystal structure and thermal decomposition of Zr<sub>6</sub>O<sub>4</sub>(OH)<sub>4</sub>(CH<sub>3</sub>CH<sub>2</sub>COO)<sub>12</sub>” **Journal of Analytical and Applied Pyrolysis**, 97 (2012) 137-142. – Q1 ([link](#))

42. 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 Babes-Bolyai Chemia*, (2012) 13-22. – Q4 ([link](#))

43. 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](#))

44. 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](#))
45. 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](#))
46. 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<sub>2</sub>(CH<sub>3</sub>CH<sub>2</sub>COO)<sub>6</sub>(H<sub>2</sub>O)<sub>3</sub>]3.5H<sub>2</sub>O precursor for high-k La<sub>2</sub>O<sub>3</sub> thin films deposition*”, *Materials Research Bulletin*, 45 (2010) 1203–1208. – Q2 ([link](#))
47. 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).**

1. **M. Nasui**, R.B. Mos, T. Petrisor Jr., M.S. Gabor, R. Varga, L. Ciontea, T. Petrisor, CCDC 809698: Experimental Crystal Structure Determination, 2011; <http://dx.doi.org/10.5517/ccw5k9w>
2. **M. Nasui**, T. Petrisor Junior, R.B. Mos, A. Mesaros, R.A. Varga, B.S. Vasile, T. Ristoiu, L. Ciontea, T. Petrisor CCDC 873618: Experimental Crystal Structure Determination, 2017; DOI: [10.5517/ccdc.esd.ccyb27k](https://doi.org/10.5517/ccdc.esd.ccyb27k)

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<sup>1</sup> indexate în:

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp> )

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de> )

[SCOPUS] - (<http://www.scopus.com> )

## Listă lucrări candidat Mircea Năsui

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