

I. LISTA lucrărilor științifice in reviste cotate ISI

1. **M. Poienar**, F. Damay, C. Martin, V. Hardy, A. Maignan, G. André, “Structural and magnetic properties of $\text{CuCr}_{1-x}\text{Mg}_x\text{O}_2$ by neutron powder diffraction” *Phys. Rev. B* 79, 014412 (2009)
2. A. Maignan, C. Martin, D. Pelloquin, E. Guilmeau, R. Frésard, V. Eyert, and **M. Poienar**, “On the strong impact of doping in the triangular antiferromagnet CuCrO_2 ” *Solid State Commun.* 149, 962-967 (2009)
3. F. Damay, **M. Poienar**, C. Martin, A. Maignan, J. Rodriguez-Carvajal, G. André and J.P. Doumerc, “Spin-lattice coupling induced phase transition in $S = 2$ frustrated antiferromagnet CuMnO_2 ” *Phys. Rev. B* 80, 094410 (2009)
4. M. Miclau, N. Miclau, **M. Poienar** and I. Grozescu, “A new piezoelectric single crystal obtained by Ge doping in the SiO_2 structure” *Crys. Res. Technol.* 44, Nr 6, 577-580 (2009).
5. M. Poienar, F. Damay, C. Martin, J. Robert, S. Petit “Spin dynamics in the geometrically frustrated multiferroic CuCrO_2 ” *Phys. Rev. B* 81, 104411 (2010)
6. C. Vecchini, **M. Poienar**, F. Damay, O. Adamopoulos, A. Daoud-Aladine, A. Lappas, J. M. Perez-Mato, L. C. Chapon and C. Martin, “Magnetoelastic coupling in the frustrated antiferromagnetic triangular lattice CuMnO_2 ” *Phys. Rev. B* 82, 094404 (2010)
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8. **M. Poienar**, C. Vecchini, G. André, A. Daoud-Aladine, I. Margiolaki, A. Maignan, A. Lappas, L. Chapon, M. Hervieu, F. Damay, C. Martin, “Substitution effect on the inter-plane coupling in crednerite: the $\text{Cu}_{1.04}\text{Mn}_{0.96}\text{O}_2$ case.” *Chemistry of Materials* 23, 85-94 (2011).
9. E. Guilmeau, **M. Poienar**, S. Kremer, S. Marinel, S. Hébert, R. Frésard, and A. Maignan, “Mg substitution in CuCrO_2 compounds” *Solid State Communications* 151, 1798-1801 (2011).
10. J. Bourgeois, M. Hervieu, **M. Poienar**, A.M. Abakumov, E. Elkaim, M.T. Sougrati, F. Porcher, F. Damay, J. Rouquette, G. Van Tendeloo, A. Maignan, J. Haines, C. Martin, “Evidence of oxygen-dependent modulation in LuFe_2O_4 ”, *Phys. Rev. B* 85 (2012) 064102.
11. **M. Poienar**, V. Hardy, B. Kundys, K. Singh, A. Maignan, F. Damay and C. Martin, “Revisiting the properties of delafossite CuCrO_2 : a single crystal study” *Journal of Solid State Chemistry* 185, 56-61 (2012).
12. J. Bourgeois, G. Andre, S. Petit, J. Robert, **M. Poienar**, J. Rouquette, E. Elkaim, M. Hervieu, A. Maignan, C. Martin, F. Damay, “Evidence of magnetic phase separation in LuFe_2O_4 ”, *Phys. Rev. B* 86 (2012) 024413
13. O. Makarova, J. Bourgeois, **M. Poienar**, I. Mirebeau, S. Kichanov, G. Andre, E. Elkaim, M. Hanfland, M. Hervieu, A. Maignan, J. Haines, J. Rouquette, C. Martin, F. Damay,

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14. M. Hervieu, F. Damay, **M. Poienar**, E. Elkaim, J. Rouquette, A.M. Abakumov, G. Van Tendeloo, A. Maignan, C. Martin, “Nanostructures in $\text{LuFe}_2\text{O}_{4+\delta}$ ”, Solid State Sciences 23 (2013) 26-34

15. M. Hervieu, A. Guesdon, J. Bourgeois, E. Elkaim, **M. Poienar**, F. Damay, J. Rouquette, A. Maignan, C. Martin, “Oxygen storage capacity and structural flexibility of $\text{LuFe}_2\text{O}_{4+x}$ ($0 \leq x \leq 0.5$)”, Nature Materials 13 (2014) 74-80.

16. F. Damay, **M. Poienar**, M. Hervieu, A. Guesdon, J. Bourgeois, T. Hansen, E. Elkaim, J. Haines, P. Hermet, L. Konczewicz, T. Hammouda, J. Rouquette, and C. Martin, High-pressure polymorph of LuFe_2O_4 with room-temperature antiferromagnetic order, **Phys. Rev. B** 91, 214111 – Published 23 June 2015.

17. **M. Poienar**, A. Maignan, P. Sfirloaga, S. Malo, P. Vlazan, A. Guesdon, F. Lainé, J. Rouquette and C. Martin, "Polar Space Group and Complex Magnetism in $\text{Ni}_2\text{HPO}_8(\text{OH})_6$: towards a new multiferroic material?", Solid State Sciences (2014) 92-96.

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20. P. Vlazan, M. Stoia, **M. Poienar**, P. Sfirloaga, “Phase transition behaviour and physicochemical properties of KNbO_3 ceramics”, Ceramics International 43 (2017) 5963-5967.

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23. **M. Poienar**, C. Martin, O.I. Lebedev, A. Maignan, “Advantage of low-temperature hydrothermal synthesis to grow stoichiometric crednerite crystals”, Solid State Sci. 80, 39 (2018).

24. **M. Poienar**, J. Bourgeois, C. Martin, M. Hervieu, F. Damay, G. Garbarino, M. Hanfland, T. Hansen, F. Baudalet, J. Louis Bantignies, P. Hermet, J. Haines, J. Rouquette, “P-T phase diagram of LuFe_2O_4 ”, Crystals 8, 184 (2018).

25. P. Sfirloaga, **M. Poienar**, I. Malaescu, A. Lungu, A., C.V. Mihali, P. Vlazan, “Electrical conductivity of Ca-substituted lanthanum manganites”, Ceramics International 44 (2018) 5823-5828.

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27. I. Malaescu, A. Lungu, C. N. Marin, P. Sfirloaga, P. Vlazan, P., S. Brindusoiu, **M. Poienar**, M., "Temperature dependence of the dynamic electrical properties of $\text{Cu}_{1+x}\text{Mn}_{1-x}\text{O}_2$ ($x = 0$ and 0.06) crednerite materials", *Ceramics International* 44 (2018) 11610-11616.
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29. **M. Poienar**, P. Sfirloaga, C. Martin, D. Ursu, P. Vlazan, "Hydrothermal synthesis of crednerite $\text{CuMn}_{1-x}\text{M}_x\text{O}_2$ ($\text{M} = \text{Mg}, \text{Al}; x = 0-0.08$): structural characterisation and magnetic properties", *Journal of Materials Science* 53 (2018) 2389-2395.
30. **M. Poienar**, A. Lungu, P. Sfirloaga, M. Lungu, C. V. Mihali and P. Vlazan, "Use of ultrasound-assisted co-precipitation route to obtain CuMnO_2 semiconductor nanomaterials", *Chemical Papers* 73 (6) 1541–1546 (2019).
31. **M. Poienar**, P. Sfirloaga, P. Vlazan, "Investigation of thermal and magnetic behaviour of mixed valence iron hydroxyphosphate from $\text{Fe}_3(\text{PO}_4)_2(\text{OH})_2$ lipscombite systems", *Ceramics International* 45 (13) 16540-16544 (2019).
32. P. Vlazan, S.F. Rus, **M. Poienar***, P. Sfirloaga "The Effect of Dopant Concentrations on the Structural, Morphological and Optical Properties of NaNbO_3 Semiconductor Materials", *Materials Science in Semiconductor Processing* 102 (2019) 104602.
33. S. Brindusoiu, **M. Poienar**, C. N. Marin, P. Sfirloaga, P. Vlazan, I. Malaescu, "The electrical conductivity of $\text{Fe}_3(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$ materials" *J. Mater. Sci.: Mater. Electron.* 30 (2019)15693.
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35. B.-O. Taranu, M.-G. Ivanovici, P. Svera, P. Sfirloaga, **M. Poienar**, "Ni $_{11}\square$ (HPO_3) $_8(\text{OH})_6$ multifunctional materials: Electrodes for oxygen evolution reaction and potential visible-light active photocatalysts" *Journal of Alloys and Compounds*, 2020, 848, 156595.
36. P. Sfirloaga, I. Sebarchievici, B. Taranu, **M. Poienar**, G. Vlase, T. Vlase, P. Vlazan, "Investigation of physico-chemical features of lanthanum manganite with nitrogen addition", *Journal of Alloys and Compounds* 843 (2020) 155854.
37. F. Damay, J. Sottmann, F. Lainé, L. Chaix, **M. Poienar**, P. Beran, E. Elkaim, F. Fauth, L. Nataf, A. Guesdon, A. Maignan, and C. Martin, Magnetic phase diagram for $\text{Fe}_{3-x}\text{Mn}_x\text{BO}_5$, *Phys. Rev. B* 101, 094418 – Published 16 March 2020.
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41. A. Bucur , R. Banica, M. C. Pascariu, **M. Poienar**, C. Mosoarca, R. Bucur, A. Negrea, I. Hulka, Eco-valorification of marine shells by hydrothermal conversion in alkaline media, *Digest Journal of Nanomaterials and Biostructures* 17 (2022)153-160.

II. Abstract Conferinte indexat ISI

1. F. Damay, G. Andre,; **Poienar, Maria**; Martin, Christine; Maignan, Antoine, Crystal and magnetic structures of frustrated antiferromagnet CuCrO₂, *Acta Cryst.* (2008). A64, C127

III. Lista publicațiilor apărute în Proceedings

1. P. Vlazan, P. Sfirloaga, **M. Poienar**, M. Stoia, “Structure and properties of nanocrystalline Bi³⁺ doped KNbO₃ ceramics obtained by hydrothermal method”, *Materials Today: Proceedings* 4(7), (2017) 7018.
2. P. Vlazan, M. Stoia, P. Svera, **M. Poienar**, P. Sfirloaga, “Influence of Synthesis Method on the Morphology and Properties of ABO₃ Materials”, *IOP Conference Series: Materials Science and Engineering* 416 (2018) 012076.
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4. P. Sfirloaga, I. Malaescu, C.N. Marin, **M. Poienar** , P. Vlazan, , Effect of Fe-doping on the structural, morphological and electrical properties of LaMnO₃, *AIP Conference Proceedings* 2218, 040003, 2020.

IV. Capitole de cărți în edituri naționale sau alte edituri internaționale

Christine Martin și **Maria Poienar**, Titlul capitolului : Quelques exemples d'oxydes de métaux de transition à valence mixte, Récents Progrès en Génie des Procédés, Numéro 108 - 2016 ISSN: 1775-335X ; ISBN: 978-2-910239-83-1, Ed. SFGP, Paris, France.

V. Conferințe (prezentări orale)

M. Poienar et al. Structural, electric and magnetic characterization of delafossite oxide CuCrO_2 5th Conference on Condensed Matter Physics, 4-8 July 2008, Romania;

M. Poienar et al. Crystal and magnetic structures of delafossite frustrated antiferromagnet CuCrO_2 Gordon Research Conference, "New Frontiers In Materials Synthesis And Characterization" Magdalen College Oxford, August 30 - September 4 2009, United Kingdom;

M. Poienar et al. Structure-Properties Relationships in LuFe_2O_4 as a Function of Pressure and Temperature Workshop High Pressure Studies using Synchrotron Radiation: Present and Future, Synchrotron Soleil, 16-17 January 2012, France;

M. Poienar et al. Hydrothermal synthesis, structure and characterisation of mixed valence iron (II/III) phosphates 4th International Solvothermal and Hydrothermal Association Conference (ISHA2014), 26-29 October 2014, France.

VI. Conferințe (prezentare sub forma de poster, autor și co-autor)

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2. **M. Poienar**, F. Damay, C. Martin, V. Hardy, G. André, A. Maignan, S. Petit, "Crystal and magnetic structures of delafossite frustrated antiferromagnet CuCrO_2 ", Ecole thématique "APPORTS DES SYMETRIES EN MATIERE CONDENSEE" 11-18 Mai 2009, Presqu'île de Giens, France ;

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10. M. Poienar, P. Sfirloaga, P. Vlazan, A. Guesdon, A. Maignan, C. Martin, " Synthesis, thermal behaviour and physico-chemical properties of Fe-P-O-OH hydroxyphosphates" CEEC-TAC3, 25-28 August 2015, Ljubljana, Slovenia.

11. M. Poienar, P. Vlazan, P. Sfirloaga, D. Ursu, R. Baies, "The Influence of pH and temperature on the morphology of mixed valence iron phosphates obtained by hydrothermal method", 21st International Symposium on Analytical and Environmental Problems, 28 September 2015, Szeged, Hungary.

12. M. Poienar, P. Sfirloaga and P. Vlazan, "Study of crednerite CuMnO_2 type materials: hydrothermal synthesis, structural and magnetic properties", TIM 15-16 Physics Conference, 26 - 28 Mai 2016, Timisoara, Romania.

13. M. Poienar, P. Sfirloaga, P. Vlazan, "Structural and magnetic properties of crednerite $\text{Cu}_{1+x}\text{Mn}_{1-x}\text{O}_2$ ($x=0-0.08$), 13th International Conference on Nanosciences & Nanotechnologies (NN16), 5-8 July 2016, Thessaloniki, Greece.

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analysis and calorimetry to the memory of Prof. St. Bretsznajder, 26-29 September 2016, Plock, Poland.

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17. M. Poienar, P. Sfirloaga, P. Vlazan, "Synthesis and characterisation of crednerite $\text{CuMn}_{1-x}\text{B}_x\text{O}_2$ (B=Mg, Al; $x=0-0.08$) type materials", BRAMAT 2017- 10TH International Conference on Materials Science and Engineering, 8-11 martie 2017, Brasov, Romania.

18. D. Malaescu, M. Poienar, A. Lungu, I. Malaescu, P. Sfirloaga, P. Vlazan, A. Dabici, C.N. Marin, S. Brandusoiu, *The AC-conductivity of crednerite $\text{Cu}_{1+x}\text{Mn}_{1-x}\text{O}_2$ ($x=0$ and 0.06)*, TIM 17 Physics Conference, 25 - 27 mai 2017, Timisoara, Romania.

19. M. Poienar, P. Sfirloaga, I. Malaescu, A. Lungu, D. Malaescu, P. Vlazan, *Microwave-assisted hydrothermal synthesis and physico-chemical characterization of CuMnO_2 type nanomaterials*, NN17- 14th International Conference on Nanosciences & Nanotechnologies 4-7 Iulie 2017, Thessaloniki, Greece.

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22. A. Lungu, P. Vlazan, D. Malaescu, I. Malaescu, M. Lungu, P. Sfirloaga, R. Banica and M. Poienar, "Ultrasounds assisted co-precipitation synthesis and photocatalytic activity of crednerite CuMnO_2 ", ROPM&AM 2017 - 5th International Conference on Powder Metallurgy and Advanced Materials, 17-20 September 2017, Cluj-Napoca, Romania.

23. P. Vlazan, M. Poienar, P. Sfirloaga, "Effect of dopant concentration on the structural, morphological and optical properties of NaNbO_3 nanoparticles", 10th International Conference on Materials Science & Engineering, 8 - 11 MArS 2017 Brasov, Romania.

24. P. Vlazan, M. Poienar, D. Ursu, M. Birdeanu, A. Dabici, P. Sfirloaga, "The influence of Bi and Zr doping on the physico-chemical properties of NaNbO_3 thin films used in sensors", TIM 17 Physics Conference, 25-27 mai 2017, Timisoara, Romania.

25. P. Vlazan, F.S. Rus, M. Poienar, M. Stoia, P. Linul, D.H. Ursu, P. Sfirloaga, "Synthesis of Zr^{4+} or Bi^{3+} doped NaNbO_3 perovskite materials and study of catalytic activity ", Fourth International Conference Catalysis for renewable sources: fuel, energy, chemicals" (CRS - 4 2017), 03 - 09 septembrie 2017, Italy.

26. S. F. Rus, D. Ursu, P. Sfirloaga, M. Poienar, S. Novaconi, P. Vlazan, "Bi, Zr doping as a tool for tuning the optical properties of NaNbO_3 thin films", 5th International Conference on Powder Metallurgy & Advanced Materials, 17-20 Septembrie 2017 Cluj Napoca, Romania.
27. P. Sfirloaga, B. Taranu, M. Poienar, C. Ianasi, P. Vlazan, "A comparative study of metal-substituted lanthanum manganite: physical properties and electrochemical performance", The 8th meeting of Electrochemistry in Nanoscience, Electrochemistry for Nano & Nano for Electrochemistry, 29-31 Mai 2018, Université de Lorraine, Nancy, France.
28. P. Sfirloaga, M. Stoia, M. Poienar, P. Vlazan, "Structural and optical properties of perovskite-type compounds obtained by ultrasonic method", The 7th International Conference on Advanced Materials and Structures - AMS 2018, 28-31 Martie 2018, Universitatea Politehnica Timisoara, Romania.
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30. P. Sfirloaga, I. Malaescu, C. N. Marin, P. Vlazan, M. Poienar, "The impact of Pd substitution on the physical properties of LaMnO_3 ", TIM18 Physics Conference, 24-26 Mai 2018, Universitatea de Vest Timisoara, Romania.
31. P. Sfirloaga, C. Mosoarca, P. Svera, M. Poienar, P. Vlazan, "Processing of perovskite materials by ultrasonic technique with immersed sonotrode in the reaction medium", TIM18 Physics Conference, 24-26 Mai 2018, Universitatea de Vest Timisoara, Romania.
32. P. Vlazan, M. Poienar, V. Buiculescu, A. Baracu, C. Mitrea, P. Sfirloaga, *Thin films - based on perovskite nanomaterials for saw device*, TIM18 Physics Conference, 24-26 Mai 2018, Universitatea de Vest Timisoara, Romania.
34. P. Vlazan, P. Sfirloaga, D. Ursu, M. Birdeanu, M. Poienar, F.S. Rus, S. Novaconi "Bismuth doping effects on structural and morphological properties of sodium titanate system" 24th International Symposium on Analytical and Environmental Problems (ISAEP), Szeged, 8-9 October 2018, Hungary.
35. P. Sfirloaga, M. Poienar, C. Mosoarca, P. Svera, P. Vlazan "Analysis of the crystalline structure and morphological features of perovskite materials performed through different ways," 24th International Symposium on Analytical and Environmental Problems (ISAEP), Szeged, 8-9 October 2018, Hungary.
36. M. Poienar, P. Sfirloaga, A. Dabici, P. Vlazan "Structural and optical properties of layered ammonium-iron (II) phosphate monohydrate" 24th International Symposium on Analytical and Environmental Problems (ISAEP), 8-9 October 2018, Szeged, Hungary.

37. S. Brindusoiu, M. Poienar, P. Sfirloaga, P. Vlazan, C. Mosoarca, P. C. Fannin, I. Malaescu and C. N. Marin, The electrical conductivity of giniite $\text{Fe}_5(\text{PO}_4)_4(\text{OH})_3 \cdot 2\text{H}_2\text{O}$ materials, TIM-19 Physics Conference 29-30 mai 2019 Timisoara, Romania.
38. P. Sfirloaga, I. Malaescu, C. N. Marin, M. Poienar, D. Ursu, C. Mosoarca and P. Vlazan, Ag doped manganite materials: morpho-structural properties and electrical performance, TIM-19 Physics Conference 29-30 Mai 2019 Timisoara, Romania.
39. P. Sfirloaga, I. Malaescu, C. N. Marin, P. Barvinschi, M. Poienar and P. Vlazan, Effect of Fe-doping on the structural, morphological and electrical properties of LaMnO_3 , TIM-19 Physics Conference 29-30 Mai 2019 Timisoara, Romania.
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