

**Lista de lucrări întocmită conform metodologiei
privind organizarea concursurilor de ocupare a posturilor didactice și de cercetare vacante
din UVT și a examenelor de promovare în cariera didactică din UVT**

i) Lista cu 10 lucrări considerate semnificative

1. P.C. Fannin, **C. N. Marin**, I. Malaescu, N. Stefu, P. Vlazan, S. Novaconi, P. Sfirloaga, S. Popescu, C. Couper, *Microwave absorbent properties of nanosized cobalt ferrite powders prepared by coprecipitation and subjected to different thermal treatments*, Materials and Design **32** 1600–1604 (2011)
2. P. C. Fannin, **C. N. Marin**, I. Malaescu, N. Stefu *Microwave dielectric properties of magnetite colloidal particles in magnetic fluids*, J. Phys.: Condensed Matter, 19 (2007) 036104-036111.
3. A. Lungu, I. Malaescu, **C. N. Marin**, P. Vlăzan, P. Sfirloaga, *The electrical properties of manganese ferrite powders prepared by two different methods*, Physica B: Condensed Matter, 462 (2015) 80-85.
4. I.Mălăescu, **C. N. Marin**, *Dielectric behavior of some ferrofluids in low-frequency fields*, Journal of Colloid and Interface Science 251 (2002) 73-77
5. **C. N. Marin**, *The particle concentration effect on magnetic resonance linewidth for magnetic liquids with chain aggregates*, J. Magn. Magn. Mater. 250 (2002) 197-202.
6. P.C.Fannin, **C. N. Marin**, I. Mălăescu, *The influence of particle concentration and polarizing field on the resonant behaviour of magnetic fluids*, J. Phys.: Condensed Matter 15 (2003) 4739 - 4750.
7. **C. N. Marin**, *Thermal and particle size distribution effects on the ferromagnetic resonance in magnetic fluids*, J.Magn.Magn.Mater., 300 (2006) 397 - 406.
8. D. Lazic, I. Malaescu, O. M. Bunoiu, I. Marin, F. G. Popescu, V. Socoliuc, **C. N. Marin**, *Investigation of therapeutic-like irradiation effect on magnetic hyperthermia characteristics of a water-based ferrofluid with magnetite particles*, J. Magn. Magn. Mater., **502** (2020) Article number 166605
9. **C. N. Marin**, P.C. Fannin, I. Mălăescu, P. Barvinschi, A. Ercuța, *Intra-well relaxation process in magnetic fluids subjected to strong polarising fields*, Journal of Magnetism and Magnetic Materials **324** (4) 434 - 439 (2012)
10. A. E. Segneanu, **C. N. Marin**, G. Vlase, C. Capan, M. Mihailescu, C. Muntean, I. Grozescu, *Highly efficient engineered waste eggshell-fly ash for cadmium removal from aqueous solution*, Scientific Reports, **12** (2022) 9676 DOI 10.1038/s41598-022-13664-6

ii)

TEZA DE DOCTORAT cu titlul *Comportarea sistemelor disperse de nanoparticule magnetice în câmpuri magnetice statice și dinamice* a fost susținută public în data de 29.12.2003, la Universitatea de Vest din Timișoara. Titlul de doctor a fost obținut prin Ordinul Ministrului Educației și Cercetării nr. 3876 din 19.05.2004.

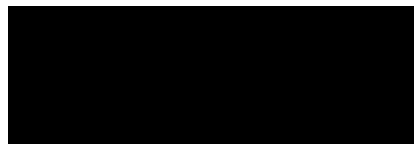
TEZA DE ABILITARE cu titlul *Contribuții la cercetarea unor fenomene de tip stimul-răspuns în compozite magneto-dielectrice* a fost susținută public la Universitatea de Vest din Timișoara. Atestatul de abilitare a fost obținut prin Ordin al Ministrului Educației Naționale și al Cercetării Științifice nr. 5966 din 08.12.2016.

iii) Cărți și monografii (ca autor sau editor)

1. **C. N. Marin**, I. Nagy, R. Georgescu *Bazele metodei de tratare a cancerului prin hipertermia magnetică a țesuturilor*, Editura Eurobit, Timișoara, 2005, ISBN 973-620-188-0.
2. **C. N. Marin**, I. Malaescu, *Fizica și tehnologia materialelor dielectrice*, Editura Universitatii de Vest din Timisoara, 2008, ISBN 978-973-125-166-0.
3. Nicoleta Ștefu, **C. N. Marin**, *Fizica pământului și a atmosferei*, Editura Eurobit, Timișoara, 2008, ISBN 978-973-620-415-9.
4. **C. N. Marin**, *Comportarea sistemelor disperse de nanoparticule magnetice în câmpuri magnetice statice și dinamice*, Editura Eurobit, Timișoara, 2014, ISBN 978-973-132-127-1.
5. **C. N. Marin**, *Fizică experimentală - Curs*, Editura Eurobit, Timișoara, 2014, ISBN 978-973-132-168-4.
6. **C. N. Marin**, *Măsurarea parametrilor electrici și magnetici ai materialelor cu linii de transmisie – Notițe pentru laborator*, Editura Eurobit, Timișoara, 2014, ISBN 978-973-132-183-7.
7. M. Spunei, I. Mălăescu, Maria Mihai, **C. N. Marin**, *Elemente de fizica radiațiilor și dozimetrie cu aplicații în radioterapie*, Editura Eurobit, Timișoara, 2014, ISBN 978-973-132-193-6.
8. **C. N. Marin**, I. Mălăescu, *Electronică – Culegere de probleme*, Editura Eurobit, Timișoara, 2015, ISBN 978-973-132-245-2.
9. **C. N. Marin**, *Proprietăți magnetice ale materialelor - notițe pentru laborator*, Editura Eurobit, Timișoara, 2016, ISBN 978-973-132-326-8.
10. TIM 18 PHYSICS CONFERENCE, **Editor C. N. Marin**, AIP Conference Proceedings, vol. 2071, 2019, ISBN: 978-0-7354-1799-1, link: <https://aip.scitation.org/toc/apc/2071/1?size=all>
11. Doru Marcel Bălțățeanu, **C. N. Marin**, *Caiet de Seminar. Electricitate și Magnetism*, Editura Eurobit, Timișoara, 2021, ISBN 978-973-132-796-9.
12. Mihail Lungu, **C. N. Marin** (Editori și autori) *The Fundamentals and Challenges of Oxide Materials* Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2, <https://www.cambridgescholars.com/product/978-1-5275-9166-0>

Cărți și monografii (ca autor sau editor) după obținerea atestatalui de abilitare

1. TIM 18 PHYSICS CONFERENCE, **Editor C. N. Marin**, AIP Conference Proceedings, vol. 2071, 2019, ISBN: 978-0-7354-1799-1, link: <https://aip.scitation.org/toc/apc/2071/1?size=all>
2. Doru Marcel Bălțățeanu, **C. N. Marin**, *Caiet de Seminar. Electricitate și Magnetism*, Editura Eurobit, Timișoara, 2021, ISBN 978-973-132-796-9.
Mihail Lungu, **C. N. Marin** (Editori și autori) *The Fundamentals and Challenges of Oxide Materials* Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2, <https://www.cambridgescholars.com/product/978-1-5275-9166-0>



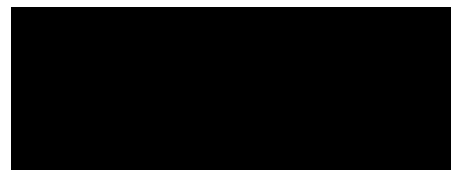
iv) Capitle de cărți (toate sunt publicate după obținerea atestatului de abilitare)

1. I. Malaescu, A. Ercuța, P. Sfirloagă, M. Poienar, P. Vlazan, A. Lungu, **C. N. Marin**, M. Lungu, *Methods of morpho-structural characterization and determination of the electrical and magnetic properties of metal oxides*, în *The Fundamentals and Challenges of Oxide Materials* Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2, <https://www.cambridgescholars.com/resources/pdfs/978-1-5275-9166-0-sample.pdf>
2. P. Vlazan, A. Lungu, P. Sfirloagă, **C. N. Marin**, A. Ercuța, I. Malaescu, *Oxide materials with spinel structures*, în *The Fundamentals and Challenges of Oxide Materials* Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2, <https://www.cambridgescholars.com/resources/pdfs/978-1-5275-9166-0-sample.pdf>
3. P. Sfirloagă, P. Vlazan, **C. N. Marin**, I. Malaescu, *Ceramic materials with perovskite structures*, în *The Fundamentals and Challenges of Oxide Materials* Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2, <https://www.cambridgescholars.com/resources/pdfs/978-1-5275-9166-0-sample.pdf>
4. M. Poienar, I. Malaescu, C. N. Marin, P. Vlazan, *Polycrystalline crednerite materials*, în *The Fundamentals and Challenges of Oxide Materials* Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2, <https://www.cambridgescholars.com/resources/pdfs/978-1-5275-9166-0-sample.pdf>
5. C. N. Marin, M. Lungu, M. Bunoiu, I. Malaescu, *The Fundamentals and Challenges of Oxide Materials – Applications*, în *The Fundamentals and Challenges of Oxide Materials* Cambridge Scholars Publishing, 2023, ISBN: 1-5275-9166-2, <https://www.cambridgescholars.com/resources/pdfs/978-1-5275-9166-0-sample.pdf>

v) Articole publicate în jurnale care sunt indexate în bazele de date Web of Science și Scopus

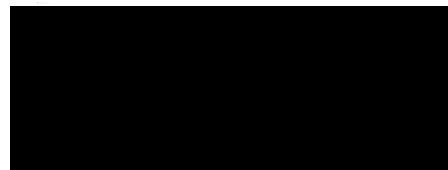
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2. I.Mălăescu, **C.N.Marin**, *Deviation from the superparamagnetic behaviour of fine-particle systems*, J. Magn. Magn. Mater 218 (2000) 91-96.
3. **C.N.Marin**, I.Mălăescu, A.Ercuța, *The dependence of the effective anisotropy constant on particle concentration within ferrofluids, measured by magnetic resonance*, J.Phys.D: Appl.Phys. 34, no.10 (2001) 1466-1469.
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21. P.C. Fannin, **C.N. Marin**, *Characteristic times of relaxation peaks of magnetic fluids*, J. Magn. Magn. Mater., **320** (2008) 2106–2111
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23. P.C.Fannin, I. Malaescu, **C. N. Marin**, N. Stefu, *Microwave propagation parameters in magnetic fluids*, The European Physical Journal E, **29** (3) 299-303 (2009)
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39. **C. N. Marin**, P. C. Fannin, K. Raj, V. Socoliuc, *Magneto-dielectric spectroscopy of magnetic fluids*, Magnetohydrodynamics, Vol. **49**, Issue 3-4 (2013) 270-276
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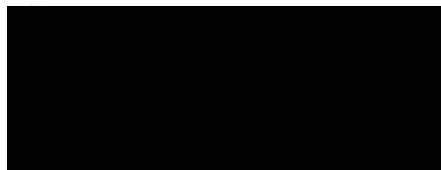
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58. P. Sfirloaga, I. Malaescu, **C. N. Marin**, P. Vlazan, *The effect of partial substitution of Pd in $LaMnO_3$ polycrystalline materials synthesized by sol-gel technique on the electrical performance*, J Sol-Gel Sci Technol (2019) **92**: 537-545. <https://doi.org/10.1007/s10971-019-05102-3>
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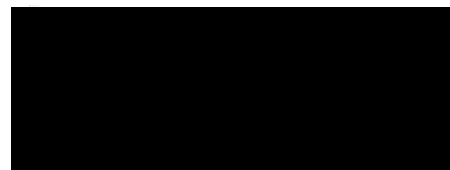
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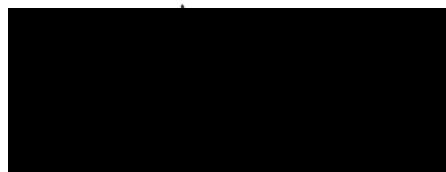
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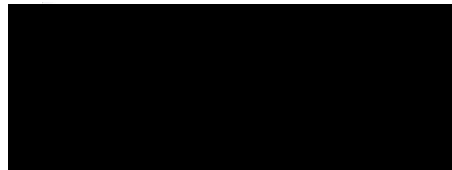
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24. I. Malaescu, **C. N. Marin**, A. Lucaci, E. Preda and I. Nicoara, *Determination of particle concentration in diluted magnetic fluids by means of FT-IR spectrometry*, Physics Conference TIM-05, Timișoara, November 26th – 27th, 2005
25. N. Ștefu, P. C. Fannin, I. Malaescu, **C. N. Marin**, *Study on the dielectric properties of the ferrofluids in high frequency field*, Physics Conference TIM-05, Timișoara, November 26th – 27th, 2005
26. I. Malaescu , **C. N. Marin**, P. C. Fannin, *Investigation of the dynamic properties of magnetic fluids using the ferromagnetic resonance*, 7th International Balkan Workshop on Applied Physics, July 5-7, 2006, Constanta, Romania (**Invited lecture**)
27. P.C.Fannin, I. Malaescu, **C.N.Marin**, N. Ștefu, *Power dissipation in magnetic fluids in microwave range*, Physics Conference Tim-06, Timisoara, November 24th- 25th, 2006.
28. P.C.Fannin, I. Malaescu, N. Ștefu, **C.N.Marin**, *Dependence on the frequency and magnetic polarizing field of the complex dielectric permittivity of the magnetic fluids in microwave range*, Physics Conference Tim-06, Timisoara, November 24th- 25th, 2006.
29. P.C.Fannin, **C.N.Marin**, I. Malaescu, N. Ștefu, *The effect of the polarizing magnetic field and of the partial immobilization of particles on the loss power in magnetic fluids*, Physics Conference Tim-06, Timisoara, November 24th- 25th, 2006.
30. Maria Poienar, **C. N. Marin**, *Investigation of micro-structural properties of magnetic fluids by means of dilution series method*, Physics Conference Tim-06, Timisoara, November 24th- 25th, 2006.



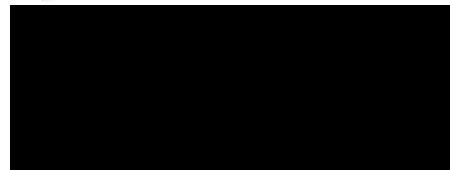
31. I. Malaescu, P.C.Fannin, **C.N.Marin**, N.Stefu, *Magnetic and dielectric behaviour of magnetic fluids in electromagnetic field*, National Conference on Applied Physics, December 8-9 2006, Iasi, Romania (**Invited lecture**)
32. Malaescu, P.C.Fannin, **C.N.Marin**, N.Stefu, *A study of magnetic fluid hyperthermia with application to the cancer treatment*, National Conference on Applied Physics, December 8-9 2006, Iasi, Romania
33. P. C. Fannin, **C. N. Marin**, C. Couper, *On the significance of the area under the after-effect function of a magnetic fluid*, 11th International Conference on Magnetic Fluids, Kosice, Slovakia, July 23 – 27, 2007.
34. **C. N. Marin**, P. C. Fannin, *Characteristic times of relaxation peaks of magnetic fluids*, in the workshop LOCAL DISORDER AT NANOSCALE, in the frame of the conference ISOTOPIC AND MOLECULAR PROCESSES, September 20-22, 2007, Cluj – Napoca, Romania
35. P. C. Fannin, I. Malaescu, **C. N. Marin**, N. Stefu, *Frequency and field dependence of the electromagnetic field propagation constants in magnetic fluids in the GHz range*, Physics Conference Tim-07, Timisoara, November 23rd- 24th, 2007.
36. P. C. Fannin, I. Malaescu, **C. N. Marin**, N. Stefu, *Specific loss power in magnetic fluids in microwave range*, Physics Conference Tim-07, Timisoara, November 23rd- 24th, 2007.
37. P. C. Fannin, **C. N. Marin**, I. Malaescu, *The spectroscopic splitting factor of nanoparticles in magnetic fluids*, Physics Conference Tim-07, Timisoara, November 23rd- 24th, 2007.
38. P. C. Fannin, **C. N. Marin**, I. Malaescu, *A comparative study of the field dependence of the properties of colloidal suspensions of nanoparticles and of magnetic spheres*, 9th International Balkan Workshop on Applied Physics, Constanta, Romania, July 7-9, 2008, ora 15.30-16.00, 7 iulie 2008 (**Invited lecture**)
39. P. C. Fannin, I. Malaescu, N. Stefu, **C. N. Marin**, *Polarizing field and particle concentration dependence of the magnetic loss power in ferrofluids*, Physics Conference Tim-08, Timișoara, November 28th- 29th, 2008.
40. P. C. Fannin, **C. N. Marin**, I. Malaescu, N. Stefu, *Microwave loss power in composite magnetic fluids*, Physics Conference Tim-08, Timișoara, November 28th- 29th, 2008.
41. P. C. Fannin, I. Malaescu, **C. N. Marin**, N. Stefu, *Frequency and field dependence of the refractive index of magnetic fluids in microwave range*, Physics Conference Tim-08, Timișoara, November 28th- 29th, 2008.
42. P. C. Fannin, **C. N. Marin**, I. Malaescu, *Determination of spectroscopic splitting factor of ferromagnetic nanoparticles in magnetic fluids*, 9th International Balkan Workshop on Applied Physics, Constanta, Romania, July 7-9, 2008, ora 15.30-16.00, 7 iulie 2008
43. P. C. Fannin, **C. N. Marin**, C. Couper, *Precessional decay time of nanoparticles in magnetic fluids*, Joint European Magnetic Symposia, September 14-19, 2008, Dublin, Ireland.
44. P. C. Fannin, **C. N. Marin**, C. Couper, *Investigation of magnetic fluids exhibiting field induced increasing loss peaks*, Joint European Magnetic Symposia, September 14-19, 2008, Dublin, Ireland.
45. P.C. Fannin, I. Malaescu, **C. N. Marin**, C. Couper, N. Stefu, *On the utility of high-frequency measurements of magnetic fluids*, 10th international Balkan Workshop on Applied Physics, July 6-8, 2009, Constanta (**Invited lecture**)
46. P.C. Fannin, **C. N. Marin**, I. Malaescu, N. Stefu, *Low frequency magnetic loss power in magnetic fluids*, 10th international Balkan Workshop on Applied Physics, July 6-8, 2009



47. I. Malaescu, **C. N. Marin**, N. Stefu, P.C. Fannin, *Study of microwave propagation parameters in magnetic fluids*, 10th international Balkan Workshop on Applied Physics, July 6-8, 2009, Constanta
48. I. Malaescu, **C. N. Marin**, N. Stefu, P. C. Fannin, *Tunable attenuation and reflection of microwaves in magnetic fluids*, Physics Conference TIM-09, November 27-28, 2009, Timisoara
49. P. C. Fannin, N. Stefu, **C. N. Marin**, I. Malaescu, R. Totoreanu, *Ferrofluid microwave devices with magnetically controlled impedances*, Physics Conference TIM-09, November 27-28, 2009, Timisoara
50. P. C. Fannin, I. Malaescu, R. Totoreanu, N. Stefu, **C. N. Marin**, *The effect of the polarizing field on the microwave propagation parameters in ferrofluids*, Physics Conference TIM-09, November 27-28, 2009, Timisoara
51. P. C. Fannin, **C. N. Marin**, I. Malaescu, N. Stefu, Paulina Vlazan, Stefan Novaconi, Paula Sfirloaga, Simona Popescu, *Microwave absorbent properties of cobalt ferrite nanopowders obtained by the hydrothermal and coprecipitation methods*, Physics Conference TIM-09, November 27-28, 2009, Timisoara
52. P. C. Fannin, **C. N. Marin**, I. Malaescu, N. Stefu, Stefan Novaconi, Paulina Vlazan, Mihaela Vasile, Simona Popescu, *Precursor's concentration effect on the microwave magnetic properties of oxidic compounds with Zn-ferrite*, Physics Conference TIM-09, November 27-28, 2009, Timisoara
53. V. A. Serban, I. Malaescu, A. Ercuta, **C. N. Marin**, C. Opris, C. Codreanu, D. Utu, *Magnetic properties of the WC-Co cermet systems*, Physics Conference TIM-09, November 27-28, 2009, Timisoara
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55. P.C. Fannin, **C.N. Marin**, C. Couper, *The resonance decay function method in the determination of the pre-factor of the Néel relaxation time of single-domain nanoparticles*, 12th International Conference on Magnetic Fluids, August 1 - 5, 2010 Sendai, Japan
56. C. Couper, **C. N. Marin**, P.C. Fannin, *Biasing field effect on the microwave dielectric properties of magnetic fluids*, 12th International Conference on Magnetic Fluids August 1 - 5, 2010 Sendai, Japan
57. R. Totoreanu, I. Malaescu, **C. N. Marin**, *Dielectric and geotechnical properties of some characteristic soil samples from the Timis plain region*, Physics Conference Tim-10, Nov. 25th -27th, 2010, Timisoara
58. P. C. Fannin, I. Malaescu, **C.N. Marin**, N. Stefu, D. Malaescu, *Microwave Absorbent Properties of Composite Magnetic*, Physics Conference Tim-10, Nov. 25th -27th, 2010, Timisoara
59. P. Vlazan, S. Novaconi, A. Ercuta, **C.N. Marin**, I. Malaescu, A. Bucur, P. Sfirloaga, N. Stefu, *Synthesis and characterization of CuFe₂O₄ nanoparticles prepared by the hydrothermal ultrasonically assisted method*, Physics Conference Tim-10, Nov. 25th -27th, 2010, Timisoara
60. S. Novaconi, I. Malaescu, P. Vlazan, P. Sfarloaga, A. Ercuta, I. Badea, N. Stefu, **C. N. Marin**, *Synthesis of Nano-Structured Bi₂Te₃ and Zn₄Sb₃ Semiconductors for Thermal Energy Recovery*, Physics Conference Tim-10, Nov. 25th -27th, 2010, Timisoara



61. P. C. Fannin, **C. N. Marin**, I. Mălăescu, A. Ercuța, P. Barvinschi, P. Sfirloagă, *Investigation of a Magnetic Fluid Exhibiting Double Absorption Peak in the Microwave Susceptibility Spectrum*, Physics Conference Tim-10, Nov. 25th -27th, 2010, Timisoara
62. I. Malaescu, **C. N. Marin**, S. Novaconi, P. Sfirloaga, N. Stefu, A. Ercuta, *Thermo-Electric Properties of Nanoparticulate Bi₂Te₃ and Zn₄Sb₃ Semiconductors For Application in Clean Energy*, Physics Conference Tim-10, Nov. 25th -27th, 2010, Timisoara
63. Al. Savici, I. Mălăescu, **C. N. Marin**, D. Mălăescu - *The temperature effect of the Electromagnetic properties of magnetic fluids in low-frequency field* - 12th International Balkan Workshop on Applied Physics, Constanța, July 6-8, 2011 (Book of abstracts, ISBN 978-973-614- 645-9)
64. P. C. Fannin, **C. N. Marin**, K. Raj, C. Couper and P. Barvinschi, *An experimental study of the dynamic properties of nanoparticle colloids with identical magnetization but different particle size*, Moscow International Symposium on Magnetism, Moscow, Russia, August 21-25, 2011
65. P. C. Fannin, **C. N. Marin**, *The use of magnetic spectroscopy in the investigation of the magnetic viscosity of nanoparticles at microwave frequencies*, Progress In Electromagnetics Research Symposium, Suzhou, China, September 12–16, 2011
66. R. Totoreanu, I. Malaescu, **C. N. Marin**, P. Sfirloaga, *The influence of the grain size and specific surface on the dielectric permittivity of sands in low frequency field*, Physics Conference Tim-11, Nov. 24th -27th, 2011, Timisoara
67. I. Malaescu, S. Novaconi, C. Seitan, P. Sfirloaga, P. Vlazan, D. Malaescu, A. Ercuta, **C. N. Marin**, *Thermoelectric properties of sintered Bi₂Te₃ semiconductors*, Physics Conference Tim-11, Nov. 24th -27th, 2011, Timisoara
68. **C. N. Marin**, I. Mălăescu, P. C. Fannin, A. Ercuța, N. Ștefu, P. Vlăzan, S. Novaconi, D. Mălăescu, *Electromagnetic interference shielding efficiency of some magnetic paints*, Physics Conference Tim-11, Nov. 24th -27th, 2011, Timisoara
69. I. Malaescu, C. Obeada, P. C. Fannin, **C. N. Marin**, P. Barvinschi, *The temperature dependence of the magnetic susceptibility of magnetic fluids in low frequency field*, Physics Conference Tim-11, Nov. 24th -27th, 2011, Timisoara
70. I. Malaescu, A. Savici, P. C. Fannin, **C. N. Marin**, *Low frequency polarizability of colloidal nanoparticles from magnetic fluids*, Physics Conference Tim-11, Nov. 24th -27th, 2011, Timisoara
71. Paulina Vlăzan, Ștefan Novaconi, **C. N. Marin**, *Study on microwave absorbing properties of nanopowders of Co_xFe_{3-x}O₄ (x = 0.5, 0.8, 1.0 and 1.5) obtained by hydrothermal method*, Conferința Internațională “Eco-Impuls 2012” Timișoara
72. **C. N. Marin**, P. C. Fannin, I. Malaescu, *Polarizing field resolved magnetic susceptibility spectra of ferrofluids*, Physics Conference Tim-13, Nov. 21st -24th, 2013, Timisoara and 2013 JINR-UVT SCHOOL SMALL ANGLE NEUTRON SCATTERING 25th-26th of November 2013
73. Iosif Malaescu, Paul C. Fannin, **C. N. Marin**, Alexandru Savici, *Effective heat capacity and heating rate of ferrofluids*, Physics Conference Tim-13, Nov. 21st -24th, 2013, Timisoara and 2013 JINR-UVT SCHOOL SMALL ANGLE NEUTRON SCATTERING 25th-26th of November 2013
74. Alexandru Savici, Iosif Malaescu, **C. N. Marin**, *Experimental study on the thermal conductivity of magnetic fluids*, Physics Conference Tim-13, Nov. 21st -24th, 2013, Timisoara



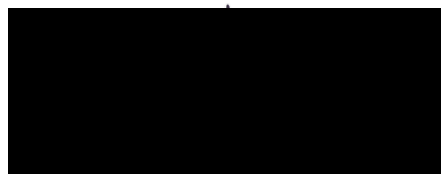
75. Antoanetta Lungu, Paulina Vlazan, I. Malaescu, **C. N. Marin**, Paula Sfirloaga, *Electric properties of manganese ferrites obtained by different methods*, Physics Conference Tim-13, Nov. 21st -24th, 2013, Timisoara
76. P. Sfirloaga, I. Miron, I. Malaescu, **C. N. Marin**, M. Poienar, D. Malaescu and P. Vlazan, *Physico-chemical characterization of natao3 synthesized by ultrasonic method with immersed sonotrode*, TIM 14 Physics Conference, 20 – 22 of November, 2014, Timisoara.
77. Dan Malaescu, Ioan Grozescu, Paula Sfirloaga, Paulina Vlazan and **Catalin Nicolaie Marin**, *Electric properties of sodium tantalate (NaTaO₃) obtained by hydrothermal method*, TIM 14 Physics Conference, 20 – 22 of November, 2014, Timisoara.
78. Antoanetta Lungu, Iosif Malaescu, **Catalin Nicolae Marin**, Paulina Vlazan and Paula Sfirloaga, *Complex impedance of manganese ferrite powders obtained by different methods*, TIM 14 Physics Conference, 20 – 22 of November, 2014, Timisoara.
79. Gabriel Mihai Turi, **Catalin Nicolae Marin** and Marius Paulescu, *A critical review of the solar energy database for the Banat plain*, TIM 14 Physics Conference, 20 – 22 of November, 2014, Timisoara.
80. Laurentiu Iordaconiu, Paul C. Fannin, Iosif Malaescu and **Catalin N. Marin**, *Polarizing field effect on the effective reflection coefficient of ferrofluids*, TIM 14 Physics Conference, 20 – 22 of November, 2014, Timisoara.
81. Marius Spunei, Iosif Malaescu and **Catalin Marin**, *Sample thickness effect on the transmitted dose through some absorbent materials*, TIM 14 Physics Conference, 20 – 22 of November, 2014, Timisoara.
82. Aurora Gajta, Daniela Turkoanje, Iosif Dan Malaescu, **Catalin N. Marin** and Marie Jeanne Koos, *Dry eye syndrome during computer usage*, TIM 14 Physics Conference, 20 – 22 of November, 2014.
83. Iosif Malaescu, Ioan Bica, Laurentiu Iordaconiu, **Catalin N. Marin** and Paul C. Fannin, *Broadband absorbing properties of some silicone composite membranes*, TIM 15 - 16 Physics Conference, 26th – 28th of May, 2016, Timisoara.
84. Iosif Malaescu, **Catalin N. Marin** and Paul C. Fannin, *The specific absorption rate (SAR) of ferrofluids*, TIM 15 - 16 Physics Conference, 26th – 28th of May, 2016, Timisoara.
85. Dan Malaescu, Paula Sfirloaga, Paul Barvinschi, Paulina Vlazan, **Catalin N. Marin** and Iosif Malaescu, *Study of some physical properties of aluminum or copper doped NaTaO₃ powder samples*, TIM 15 - 16 Physics Conference, 26th – 28th of May, 2016, Timisoara.
86. Aurora Gajta, Daniela Turkoanje, Alecsandra Triplica, Iosif Malaescu, **Catalin Marin**, Marie Jeanne Koos and Calin Muntean, *Tear ferning test and ph of the tears at cell phone users*, TIM 15 - 16 Physics Conference, 26th – 28th of May, 2016, Timisoara.
87. **Catalin Nicolae Marin**, Paul C. Fannin, Iosif Malaescu, Kuldip Raj and Gabriel Turi, *Changes in the magnetic susceptibility spectrum of ferrofluids by magnetic shaking*, TIM 15 - 16 Physics Conference, 26th – 28th of May, 2016, Timisoara.
88. D. Lazic, P. C. Fannin, V. Socoliuc, P. Sfirloaga, P. Barvinschi, I. Malaescu, **C. N. Marin**, *The influence of the size of particles on magnetic heating of a mixed ferrite*, TIM 18 Physics Conference, 24th – 26th of May, 2018, Timisoara.
89. **C. N. Marin**, I. Malaescu, I. Bica, M. Bunoiu and G. Pascu, *Shielding effectiveness of some magnetic elastomer membranes*, TIM 18 Physics Conference, 24th – 26th of May, 2018, Timisoara.

90. M. Bunoiu, I. Bica, I. Malaescu, **C. N. Marin**, M. Lungu, G. Pascu and Larisa M. E. Chirigiu, *Planar capacitors with electrically capacitance controlled by the magnetic field*, TIM 18 Physics Conference, 24th – 26th of May, 2018, Timisoara.
91. P. Sfirloaga, I. Malaescu, **C. N. Marin**, P. Vlazan and M. Poienar, *The impact of pd substitution on the physical properties of LaMnO₃*, TIM 18 Physics Conference, 24th – 26th of May, 2018, Timisoara.
92. I. Malaescu, Daniela Susan-Resiga, **C. N. Marin** and P. C. Fannin, *Thermal conductivity and rheological behaviour of ferrofluids in polarizing magnetic field*, TIM 18 Physics Conference, 24th – 26th of May, 2018, Timisoara.
93. Georgeta Matu, Antoanetta Lungu, Iosif Malaescu, Paulina Vlazan, Paula Sfirloaga, Octavian Madalin Bunoiu, **Catalin Nicolae Marin**, *Thermal analysis of the electrical properties of Zn-substituted and un-substituted manganese ferrite*, 28th Symposium on Thermal Analysis and Calorimetry – Eugen Segal – of the Commission for Thermal Analysis and Calorimetry (CATCAR28) & 2nd Symposium on Thermal Analysis and Calorimetry of Moldova (MoldTAC2), Timisoara 9-10mai, 2019.
94. I. Malaescu, P. C. Fannin, O. M. Bunoiu, **C. N. Marin**, *Magnetically tuning of microwave propagation through ferrofluids*, International Conference on Magnetic Fluids, July 8 – 12, Paris, 2019.
95. O.M. Bunoiu, G. Matu, **C. N. Marin**, I. Malaescu, *Investigation of some thermal parameters of ferrofluids in the presence of a static magnetic field*, International Conference on Magnetic Fluids, July 8 – 12, Paris, 2019.
96. D. Lazic, I. Malaescu, O. M. Bunoiu, V. Socoliuc, **C. N. Marin**, *Investigation of therapeutic-like irradiation effect on magnetic hyperthermia characteristics of water based ferrofluids*, International Conference on Magnetic Fluids, July 8 – 12, Paris, 2019.
97. E. Anitas, I. Bica, M. Bunoiu, I. Malaescu, **C. N. Marin**, A. Ercuta, M. Balasoiu, M. Lungu, G. Pascu, *Magneto-optical transmittance observed in magnetorheological suspensions films*, TIM 19 Physics Conference, 29th of May – 1st of June, 2019, Timisoara.
98. S. Brindusoiu, P. Sfirloaga, P. Vazan, P. C. Fannin, I. Malaescu, **C. N. Marin**, *The electrical conductivity of giniite Fe₅(PO₄)₄(OH)₃·2H₂O materials*, TIM 19 Physics Conference, 29th of May – 1st of June, 2019, Timisoara.
99. P. Sfirloaga, I. Malaescu, **C. N. Marin**, M. Poienar, P. Vlazan, *Effect of Fe-doping on the structural, morphological and electrical properties of LaMnO₃*, TIM 19 Physics Conference, 29th of May – 1st of June, 2019, Timisoara.
100. B. Ile, M. Spunei, I. Malaescu, **C. N. Marin**, *The stability of silicone based bolus before and after a radiotherapy treatment*, TIM 19 Physics Conference, 29th of May – 1st of June, 2019, Timisoara.
101. **C. N. Marin**, P. C. Fannin, *Microwave magneto-permittivity of ferrofluids*, 4th International Summer School and Workshop “Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure” 19-23 April 2021, Timisoara, Romania (**invited lecture**)
102. Vlad Socoliuc and **Catalin Nicolae Marin** *Spontaneous and magnetically induced nanoparticle clustering in moderately concentrated transformer oil based magnetic fluids* TIM 20-21 Physics Conference, 11th of November – 13th of November, 2021, Timisoara.
103. Alexandrina Teusdea, P. C. Fannin, O. M. Bunoiu, I. Malaescu, **C. N. Marin**, *Magnetic field effect on some electrical properties of ferrofluid in low frequency field* TIM 20-21 Physics Conference, 11th of November – 13th of November, 2021, Timisoara.

104. A. Teusdea, P. C. Fannin, I. Malaescu, **C. N. Marin**, *The effect of a polarizing magnetic field on the dynamic properties and of the specific absorption rate of ferrofluids in the microwave range*, 4th International Summer School and Workshop “Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure”, 19-23 April 2021, Timisoara, Romania
105. **C. N. Marin**, *Design of the Microwave Propagation Parameters in Magnetic Fluids*, FUTURE MATERIALS 2022: 3rd International Conference on Materials Science & Nanotechnology, October 03-05, 2022 | Rome, Italy, <https://materialsconference.yuktan.com/featured-speakers> (invited lecture)
106. **Catalin N. Marin**, P. C. Fannin, I. Malaescu, O. M. Bunoiu, *On the modeling of microwave ferrofluidic absorbers*, Physics Conference TIM-22, Timișoara, November 23rd – 25th, 2022, https://timconference.uvt.ro/upload/CMP_Program_TIM22.pdf

Contributii la conferinte (după obtinerea atestatului de abilitare)

1. D. Lazic, P. C. Fannin, V. Socoliuc, P. Sfirloaga, P. Barvinschi, I. Malaescu, **C. N. Marin**, *The influence of the size of particles on magnetic heating of a mixed ferrite*, TIM 18 Physics Conference, 24th – 26th of May, 2018, Timisoara.
2. **C. N. Marin**, I. Malaescu, I. Bica, M. Bunoiu and G. Pascu, *Shielding effectiveness of some magnetic elastomer membranes*, TIM 18 Physics Conference, 24th – 26th of May, 2018, Timisoara.
3. M. Bunoiu, I. Bica, I. Malaescu, **C. N. Marin**, M. Lungu, G. Pascu and Larisa M. E. Chirigiu, *Planar capacitors with electrically capacitance controlled by the magnetic field*, TIM 18 Physics Conference, 24th – 26th of May, 2018, Timisoara.
4. P. Sfirloaga, I. Malaescu, **C. N. Marin**, P. Vlazan and M. Poienar, *The impact of pd substitution on the physical properties of LaMnO₃*, TIM 18 Physics Conference, 24th – 26th of May, 2018, Timisoara.
5. I. Malaescu, Daniela Susan-Resiga, **C. N. Marin** and P. C. Fannin, *Thermal conductivity and rheological behaviour of ferrofluids in polarizing magnetic field*, TIM 18 Physics Conference, 24th – 26th of May, 2018, Timisoara.
6. Georgeta Matu, Antoanetta Lungu, Iosif Malaescu, Paulina Vlazan, Paula Sfirloaga, Octavian Madalin Bunoiu, **Catalin Nicolae Marin**, *Thermal analysis of the electrical properties of Zn-substituted and un-substituted manganese ferrite*, 28th Symposium on Thermal Analysis and Calorimetry – Eugen Segal – of the Commission for Thermal Analysis and Calorimetry (CATCAR28) & 2nd Symposium on Thermal Analysis and Calorimetry of Moldova (MoldTAC2), Timisoara 9-10mai, 2019.
7. I. Malaescu, P. C. Fannin, O. M. Bunoiu, **C. N. Marin**, *Magnetically tuning of microwave propagation through ferrofluids*, International Conference on Magnetic Fluids, July 8 – 12, Paris, 2019.
8. O.M. Bunoiu, G. Matu, **C. N. Marin**, I. Malaescu, *Investigation of some thermal parameters of ferrofluids in the presence of a static magnetic field*, International Conference on Magnetic Fluids, July 8 – 12, Paris, 2019.
9. D. Lazic, I. Malaescu, O. M. Bunoiu, V. Socoliuc, **C. N. Marin**, *Investigation of therapeutic-like irradiation effect on magnetic hyperthermia characteristics of water based*



- ferrofluids*, International Conference on Magnetic Fluids, July 8 – 12, Paris, 2019.
10. E. Anitas, I. Bica, M. Bunoiu, I. Malaescu, **C. N. Marin**, A. Ercuta, M. Balasoiu, M. Lungu, G. Pascu, *Magneto-optical transmittance observed in magnetorheological suspensions films*, TIM 19 Physics Conference, 29th of May – 1st of June, 2019, Timisoara.
 11. S. Brindusoiu, P. Sfirloaga, P. Vazan, P. C. Fannin, I. Malaescu, **C. N. Marin**, *The electrical conductivity of giniite $Fe_5(PO_4)_4(OH)_3 \cdot 2H_2O$ materials*, TIM 19 Physics Conference, 29th of May – 1st of June, 2019, Timisoara.
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 13. B. Ile, M. Spunei, I. Malaescu, **C. N. Marin**, *The stability of silicone based bolus before and after a radiotherapy treatment*, TIM 19 Physics Conference, 29th of May – 1st of June, 2019, Timisoara.
 14. **C. N. Marin**, P. C. Fannin, *Microwave magneto-permittivity of ferrofluids*, 4th International Summer School and Workshop “Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure” 19-23 April 2021, Timisoara, Romania (**invited lecture**)
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 16. Alexandrina Teusdea, P. C. Fannin, O. M. Bunoiu, I. Malaescu, **C. N. Marin**, *Magnetic field effect on some electrical properties of ferrofluid in low frequency field* TIM 20-21 Physics Conference, 11th of November – 13th of November, 2021, Timisoara.
 17. A. Teusdea, P. C. Fannin, I. Malaescu, **C. N. Marin**, *The effect of a polarizing magnetic field on the dynamic properties and of the specific absorption rate of ferrofluids in the microwave range*, 4th International Summer School and Workshop “Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure”, 19-23 April 2021, Timisoara, Romania
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 19. **Catalin N. Marin**, P. C. Fannin, I. Malaescu, O. M. Bunoiu, *On the modeling of microwave ferrofluidic absorbers*, Physics Conference TIM-22, Timișoara, November 23rd – 25th, 2022, https://timconference.uvt.ro/upload/CMP_Program_TIM22.pdf

Timișoara, 02 mai 2023

Conf. Dr. Habil. Cătălin Nicolaie Marin

