

Lista lucrărilor științifice

a) Lista lucrărilor relevante (incluse în dosar)

1. **C. Mita**, M. Frenti, N. Cornei, G. Bulai, M. Dobromir, D. Mardare, N-doped ZrO₂ thin films for photocatalytic decomposition of some harmful dyes for the environment, *Ceram. Int.*, 51, 37292-37303 (2025), <https://doi.org/10.1016/j.ceramint.2025.05.436>
2. **C. Mita**, M. Frenti, N. Cornei, G. Bulai, M. Dobromir, A. Doroshkevici, Z. Mezentseva, D. Mardare, High stability and photocatalytic activity of N-doped ZrO₂ thin films, *J. Alloys Compd.*, 1002, 1751344 (2024), <https://doi.org/10.1016/j.jallcom.2024.175134>
3. **C. Mita**, N. Cornei, G. Bulai, M. Dobromir, M. Girtan, A.S. Doroshkevich, E. Gyorgy, D. Mardare, The enhancement of the photocatalytic properties of SmFe_{0.7}Co_{0.3}O₃ thin films by synergistic effect of Sr doping and H₂O₂ as co-catalyst, *Ceram. Int.*, 49, 14225-14237 (2023), <https://doi.org/10.1016/j.ceramint.2023.01.009>
4. **C. Mita**, N. Cornei, M. Frenti, G. Bulai, M. Dobromir, V. Tiron, A.S. Doroshkevich, D. Mardare, Photocatalytic activity of N-Doped ZrO₂ thin films determined by direct and indirect irradiation, *Materials*, 16, 5901 (2023), <https://doi.org/10.3390/ma16175901>
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6. D. Mardare, M. Frenti, **C. Mita**, N. Cornei, G. Bulai, M. Dragomir, A. Doroshkevich, A. Yildiz, Electrical Conduction Mechanism of Mg-Doped ZrO₂ Thin Films, *Materials*, 17, 3652 (2024), <https://doi.org/10.3390/ma17153652>
7. C.A. Ghiorghita, M.M. Lazar, D. Humelnicu, **C. Mita**, I.A. Dinu, D. Bejan, M. Dobromir, M.V. Dinu, Floatable chitosan-based cryogels embedded with copper nanoparticles as efficient and reusable heterogeneous catalysts for hydrogenation of 4-nitrophenol, *Int. J. Biol. Macromol.*, 370, 152868 (2026), <https://doi.org/10.1016/j.ijbiomac.2026.152868>
8. A.V. Maletsky, D.R. Belichko, T.E. Konstantinova, G.K. Volkova, A.S. Doroshkevich, A.I. Lyubchik, V.V. Burkhovetskiy, V.A. Aleksandrov, D. Mardare, **C. Mita**, D. Chicea, L.H. Khiem, Structure formation and properties of corundum ceramics based on metastable aluminium oxide doped with stabilized zirconium dioxide, *Ceram. Int.*, 47, 19489-19495 (2021). <https://doi.org/10.1016/j.ceramint.2021.03.286>
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10. Doroshkevich, A.S. Lyubchik, A.I. Oksengendler, B.L. Zelenyak, T.Y. Appazov, N.O. Kirillov, A.K. Vasilenko, T.A. Tatarinova, A.A. Gorban, O.O. Bodnarchuk, V.I. Nikiforova, N.N. Balasoiu, M. Mardare, D.M. **Mita**, C. Luca, D. Mirzayev, M.N. Nabiyeu, A.A. Popov, E.P. Stanculescu, A. Konstantinova, T.E. Aleksiyenak, Y.V. Electric Energy Storage Effect in Hydrated ZrO₂-Nanostructured System, *Nanomaterials*, 12(11), 1783 (2022), <https://doi.org/10.3390/nano12111783>

b) Teza de doctorat

Titlul tezei: Studii asupra structurii și reactivității complexelor ionilor metalici din prima serie de tranziție cu β-dicetone, susținută în decembrie 1999 sub coordonarea științifică a d-nului prof. univ. dr. Ioan Berdan

c) Brevete de invenții

1. Magnetoresistive sensors, Patent număr: RO125633-A2,
Inventatori: Cornei N., Craus M. L., Dobrea V., Fosalau C. I., Gheorghiu D. A., Lozovan M., Luca D., **Mita C.**

d) Cărți și capitole din cărți

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d) Lista de lucrări publicate în reviste științifice cotate ISI

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9. E. B. Asgerov, A.I. Beskrovnyy, N.V. Doroshkevich, **C. Mita**, D.M. Mardare, D. Chicea, M.D. Lazar, A.A. Tatarinova, S.I. Lyubchyk, S.B. Lyubchyk, A.I. Lyubchyk, A.S. Doroshkevich, Reversible Martensitic Phase Transition in Yttrium-Stabilized ZrO₂ Nanopowders by Adsorption of Water, *Nanomaterials*, 12, 435 (2022), <https://doi.org/10.3390/nano12030435>
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26. L. Craus, Nicoleta Cornei, I. Berdan, **C. Miță**, M. N. Palamaru, The influence of the Sm substitution with Gd on the transport properties of some $(\text{Gd}_{1-x}\text{Sm}_x)_{0.6}\text{Sr}_{0.4}\text{MnO}_{3\pm\delta}$ manganites, *Rev. Roum. Chim.*, 49(1), 55-60 (2004).
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33. B.C. Neculau, D.G. Cozma, L. Iftime, **C. Mita**, The training path individualization of students from technological route at the confluence of agriculture and chemistry disciplines, *Acta Chem. Iasi*, 33 (2), 259-286 (2025), <http://dx.doi.org/10.47743/achi-2025-2-0013>

e) Lista de lucrări publicate în reviste indexate BDI și în volumele conferințelor

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2. Al. Cecal, D. Humelnicu, **C. Mita**, A. Iordan, D. Colisnic, Use of some synthetic zeolites for the recovery of uranyl ions from residual waters, *Sci. Annals of “Al.I.Cuza” University of Iași*, IV, s. Chem., 83 (1996).

3. A. Gulea, Al. Cecal, V. Rudic, I. Palamaru, **C. Mita**, Hydration of uranyl ions in aqueous solution, *Sci. Annals of "Al.I.Cuza" University of Iași*, **V**, s Chem., 53 (1997).
4. I. Berdan, T. Antonescu, T. Farcaș, I. Ilea, **C. Mita**, L'influence des varieties d'oxyde de plomb sur la formation des sulfates basiques de plomb, *Sci. Annals of "Al.I.Cuza" University of Iași*, **V**, s Chem., 57 (1997).
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6. T. Onofrei, C. Arsene, M. Albu, **C. Mita**, Sorption of Pb(II) on chemically-modified celluloses, *Sci. Annals of "Al.I.Cuza" University of Iași*, **VIII**(2), 275-280 (2000).
7. I. Berdan, N. Cornei, M.-L. Craus, **C. Mita**, Synthesis, structure and magnetic properties of sol-gel $(\text{Sm}_{1-x}\text{Tb}_x)_{0.6}\text{Ba}_{0.4}\text{MnO}_{3\pm\delta}$ perovskite, *Sci. Annals of "Al.I.Cuza" University of Iași*, **X**(2), 167-174 (2002)
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10. N. Cornei, M.-L. Craus, I. Berdan, **C. Mita**, Magnetoresistivity of $(\text{La}, \text{Nd})_{0.44}\text{Ho}_{0.11}\text{Sr}_{0.45}\text{MnO}_{3\pm\delta}$ Manganites, *13th Romanian International Conference on Chemistry and Chemical Engineering - University "Politehnica" of Bucharest - Faculty of Industrial Chemistry*, **3**, 1-7 (2003).
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12. M. L. Craus, **C. Mita**, N. Cornei, M. Lozovanu, Extrinsic magnetoresistance of some $(\text{Tb,Gd})_{1-x}\text{Sm}_x)_{0.6}\text{Sr}_{0.4}\text{MnO}_3$ manganites, *14th Romanian International Conference on Chemistry and Chemical Engineering - University "Politehnica" of Bucharest - Faculty of Industrial Chemistry*, **1**, 231-240, (2005)
13. N. Cornei, **C. Mita**, M.-L. Craus, Structure and magnetic properties in $\text{La}_{0.54}\text{Ho}_{0.11}\text{Sr}_{0.35}\text{Co}_x\text{Mn}_{1-x}\text{O}_3$ system,— *Bul. „Transilvania” University, Brasov*, **II**, 363-366 (2007).
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18. D. Sibiescu, M.D. Tutulea **C. Mita**, C. Corneliu, I. Rosca. M. Mihaela, The obtaining and the stability in aqueous medium of new complex compounds of Ni (II) and Co (II) with N- hydroxy- succinimide and their potential applications as sensors, *SPIE-ATOMN*, **7821**, 78210M-1-9 (2010).
19. E. Catarau, L. Iftime, D. G. Cozma, **C. Mita**, Invatarea prin cooperare/ joc de rol la confluenta disciplinelor chimie-agricultura (Learning through cooperation/ role play at the confluence between chemistry and agriculture), *Met. Mijl. Inv. Chem.*, **2**, 25-36 (2014).
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f) Lucrari prezentate la manifestari științifice naționale și internaționale (selecție 2022-2025)

1. N. Cornei, M.L. Craus, **C. Mita**, Spin-glass state influence on the low temperature transport phenomena in $\text{La}_{0.54}\text{Nd}_{0.11}\text{Sr}_{0.35}\text{Mn}_{1-x}\text{Co}_x\text{O}_3$ manganites, International Conference on Condensed Matter Research at the IBR-2, 10/2020, Dubna, Russia
2. D. Racolta, M. Balasoiu, C. Andronache, L. Mihaly-Cosmuta, **C. Mita**, N. Belozero, A. Rogachev, O. Orelovich, V. Turchenko, A.M. Balasoiu-Gaina, V. Sikolenko, Effects of iron and vanadium ions on lithium-phosphate glasses: morfological, structural and spectroscopic properties, International Conference on Condensed Matter Research at the IBR-2, 10/2020, Dubna, Russia
3. M.L. Craus, **C. Mita**, V. Dobrea, N. Cornei, Influence of low Pb concentration on the structure and transport phenomena of LaMnO_3 manganites, International Conference on Condensed Matter Research at the IBR-2, 10/2020, Dubna, Russia
4. A.A. Tatarinova, A.S. Doroshkevich, M. Kulik, A.V. Shylo, A. Lyubchik, N. Cornei, D. Mardare, **C. Mita**, M. Balasoiu, Application of the Rutherford ion backscattering spectrometry method in powder nanotechnology, International research and practice conference: Nanotechnology and Nanomaterials (NANO-2020) 08/2020, Lviv, Ucraina
5. E.A. Gridina, A.S. Doroshkevich, A.I. Lyubchik, M.A. Balasoiu, A. Stanculescu, A.S. Zakharova, D. Mardare, **C. Mita**, A.V. Shylo, A.N. Lichachov, Percolation dielectric-conductor transition in a hydrated YSZ nanopowder system // Book of Abstracts IV International Summer School and Workshop "Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure" (CMSMS 2021) 19-22 April 2021, Timisoara, Romania. P. 66-67.
6. A.S. Doroshkevich, V.A. Alexandrov, A.I. Lyubchik, B.L. Oksengendler, A.K. Kirillov, T.A. Vasilenko, T.E. Konstantinova, A.V. Shilo, N.N. Nikiforova, A.A. Nabiye, M.A. Balasoiu, D. Mardare, **C. Mita**, V.I. Bodnarchuk, D. Chicea, S.I. Lyubchik. Advanced adsorption energy generating systems based on polarized substrates // International Conference on Radiation in Various Fields of Research [RAD 2021] (9 ;2021 ; Herceg Novi), June 14 - 18, 2021, P. 65.
7. V.A. Alexandrov, A.S. Doroshkevich, A.I. Lyubchik, N.S. Tichonova, A.S. Zakharova, E.A. Gridina, B.L. Oksengendler, A.K. Kirillov, T.A. Vasilenko, T.E. Konstantinova, N.N. Nikiforova, A.A. Nabiye, M.A. Balasoiu, D. Mardare, **C. Mita**, V.I. Bodnarchuk, A. Stanculescu, S.I. Lyubchik, Study of electrical characteristics of a YSZ-nanopowder chemo converter on an electreted polymer substrate. // Book of Abstracts IV International Summer School and Workshop "Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure" (CMSMS 2021) 19-22 April 2021, Timisoara, Romania. P. 58-59.
8. A.S. Doroshkevich, K.E. Studnev, A.I. Lyubchik, A.A. Nabiye, A.Kh. Islamov, N.V. Doroshkevich, A.K. Kirillov, T.A. Vasilenko, T.E. Konstantinova, M. Bălăsoiu, D. Mardare, **C. Mita**, V.I. Bodnarchuk, D. Chicea, A.V. Shylo, The volumetric adsorption hydroelectric transducer for a new alternative energy // Book of Abstracts IV International Summer School and Workshop "Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure" (CMSMS 2021) 19-22 April 2021, Timisoara, Romania. P. 144-145.
9. Didenko E.A., Doroshkevich A.S., Samedovaa U.F., Kirillov A.K., Vasilenko T.A., Oksengendler B.L., Nikiforova N.N., Balasoiu M., Stanculescu A., Mardare D., **Mita C.**, Research of electric properties of hydratable crystal MnSe-CuInSe_2 promising for using in renewable energy / Condensed Matter Research at the IBR-2: Programme and Abstracts of the International Conference, Dubna: JINR, 2022. — p. 181 - 183. ISBN 978-5-9530-0568-5 2022. 2022.
10. A.S. Doroshkevich, T.Yu Zelenyak, A.I. Madadzada, A.N. Lihachev, M.A. Balasoiu, E.V. Lychagin, P. Badica, M. Stef, B. Jasinska, I.M. Chepurchenko, K.Ye. Studnev, T.V. Phuc, L.H. Khiem, P.L. Tuan, Vesna Teofilović, Ivan Ristić, Roman Balvanović, Zoran Jovanović, A. Stanculescu, **C. Mita**, D. Mardare, J. Žuk, D. Luca, Condensed matter research at the EG-5 accelerator / Condensed Matter Research at the IBR-2: Programme and Abstracts of the International Conference — Dubna: JINR, 2022. — p. 87-88. ISBN 978-5-9530-0568-5 2022. 2022.
11. A.S. Doroshkevich, T.Yu Zelenyak, A.I. Kruglyak, Y. Aleksienak, B. Jasinska, A.I. Madadzada, M.A. Balasoiu, P. Badica, M. Stef, T.V. Phuc, L.H. Khiem, P.L. Tuan, V. Teofilović, I. Ristić, R. Balvanović, Z. Jovanović, A. Stanculescu, **C. Mita**, D. Mardare, D. Luca, V.K. Ksenevich, N.O. Appazov, K.B. Bakiruly, The study of the cosmogenic radiation effects on condensed matter and living organisms on the Earth using the EG-5 accelerator (JINR), The 16th International Symposium- on Origin of Matter and Evolution of Galaxies, 25-28 Octombrie 2022, Hanoi, Vietnam
12. M. Frenti, N. Cornei, **C. Mita**, G. Bulai, M. Dobromir, V. Tiron, D. Mardare, Photocatalytic properties of N-doped ZrO_2 thin films, Materials, Methods & Technologies 2023 25th International Conference, 17-20 August, Burgas, Bulgaria, comunicare.
13. **C. Mita**, N. Cornei, M. Frenti, G. Bulai, M. Dobromir, V. Tiron, D. Mardare, Nitrogen doped ZrO_2 thin films for photodegradation of Rhodamine B from synthetic water under visible light, IasiCHEM 5-MIT 2023, Faculty of Chemistry Conference, 26-27 octombrie 2023, comunicare orală
14. N. Cornei, **C. Mita**, D. Mardare, G. Bulai, M. Dobromir, Photocatalytic performance of undoped and Sr-doped $\text{SmFe}_{0.7}\text{Co}_{0.3}\text{O}_3$ thin films by using H_2O_2 as co-catalyst, IasiCHEM 5-MIT 2023 Faculty of Chemistry Conference, 26-27 octombrie 2023, poster.

15. M. Frenți, **C. Miță**, N. Cornei, V. Tiron, G. Bulai, M. Dobromir, D. Mardare, Studiul proprietăților fotocatalitice și de hidrofilicitate ale straturilor subțiri de ZrO_2 dopate cu azot depuse pe ITO/sticlă, Fundamental and Applied Research in Physics Workshop – FARPHYS 2023, 28 octombrie 2023, comunicare orală.
16. N. Cornei, **C. Mita**, M. Frenți, D. Mardare, G. Bulai, M. Dobromir, Photocatalytic activity of N-doped ZrO_2 thin films under UV light on the Rhodamine B and Methylene blue, Faculty of Chemistry Conference, 31 octombrie 2024, comunicare orală
17. **C. Mita**, N. Cornei, M. Frenți, D. Mardare, G. Bulai, M. Dobromir, Photodegradation efficiency and kinetics of Rhodamine B and Methylene blue using ZrO_2 - xNy thin film photocatalyst, Faculty of Chemistry Conference, 31 octombrie 2024, poster
18. **C. Mita**, N. Cornei, M. Dobromir, L.V. Soroaga, I.A. Gorodea, D. Mardare, Influence of thermal treatment on the structural, magnetic and transport properties of $La_{0.54}Nd_{0.11}Sr_{0.35}Mn_{0.85}Co_{0.15}O_3$ manganite, Faculty of Chemistry Conference, 30-31 octombrie 2025, poster

g) Proiecte și granturi naționale și internaționale

g.1. Director/responsabil de proiect/grant

1. CEEX nr.84-1/2006-2008. Electronic phases and transport mechanisms in $(Ln, Ln')_{1-x}A_xMn_{1-y}MyO_{3+\delta}$ (Ln, Ln' = rare earths, $A=Sr, Ca, Ba, Pb, K$, $M=Cu, Cr, Co, V, Sc$),
2. Proiect nr. 20 / 2011 tema 04-4-1069-2009/2011 *Influence of the oxygen concentration on the structure and transport properties of some perovskitic nanr.materials used in energy conversion (SOFCs)*
3. Proiect.nr. 58 / 2013 tema 04-4-1069-2009/2014 *Poly- and nanr.cristalline $Re_xAlk_{1-x}Co_yT_{1-y}O_3$ cobaltites*
4. Grant. nr. 18 / 2014 tema 04-4-1069-2009/2014 Study of magnetocaloric effect at some doped with tetravalent metals manganites
4. Proiect. nr. 63 / 2015 tema 04-4-1121-2015/2017, *Synthesis, structure, magnetic properties and transport characteristics of some poly- and nanr.crystalline $Re_xAlk_{1-x}Co_yT_{1-y}O_3$ perovskites*
5. Grant nr. 19/2016 și Proiect.nr. 73 / 2016 tema 04-4-1121-2015/2017, *Influence of the substitution of Ln and Mn cations on the structure and properties of some complex magnetic structure of LnM_2O_5*
6. Grant nr. 17/2017, tema 04-4-1121-2015/2017, *Effect of synthesis route on structural, magnetic and transport properties of $Ln_{1,2}(Sr, Ca)_{1,8}Mn_2O_7$ double layered manganites*
7. Grant nr. 321/2018, tema 04-4-1121-2015/2020 Impact of manganese substitution with trivalent ions on structural, magnetic and transport properties of $Ln_{1,2+x}(Sr, Ca)_{1,6+x}Mn_2O_7$ manganites
8. Grant nr. 13/2019 tema nr. 04-4-1121-2015/2020, Substitution effect of iron with transitional metal ions on structural, magnetic and transport properties of $A_2Fe(Mo, W)O_6$ double perovskites ($A=Ca, Sr, Ba$),
9. Grant nr. 12/2020, tema nr. 04-4-1121-2015/2020, Structural, magnetic and transport properties of the $Alk_{2-x}Re_xFeMoO_6$ and $Alk_{2-x}Re_xFeWoO_6$ ($Alk=Ba, Ca, Sr$; $Re=Sm, La$; $T=Ni, Co$; $0 < x < 0.3$, $0 < y < 0.5$ double perovskites
10. Grant nr. 13/2021, tema nr. 04-4-1142-2021/2025, Substitution impact on structural behaviour, magnetic and transport mechanisms of $Ln_{0.66}Sr_{0.35}MnO_3$
11. Grant nr. 27/2021, tema nr. 04-4-1143-2021/2025, Study of optically transparent and thermal barrier nanostructured oxide systems based on ZrO_2 - MgO - Eu_2O_3 for applications in optic, electronic and radiation technologies using nuclear physics methods,

g.2. Membru al echipei proiectului/grantului

1. Academia Română nr. 3557/1996-1997, Synthesis and characterization of some coordinative compounds with special optical, thermal and electrical properties
2. CNCIS 7011/1997-1999, Separation and recovery of useful components from indigenous ores and industrial by-products
3. CNCIS nr. 951/2001-2003 Researcher on reactivity and reaction mechanisms of coordinative compounds
4. CNCIS nr.1402/2003-2005, Synthesis and characterization of oxidic compounds with magnetoresistive properties
5. CERES nr. 3-3/2004-2005, Poly- and nano.crystalline magnetoresistive perovskites with rare-earth substitution
6. CERES nr. 4-207/2004-2006: Researcher on extrinsic and intrinsic magnetoresistance to $(Ln, Ln')_{1-x}(Alk)_x(Mn, T)O_3$ simple manganites with the additions of (Na, K)

8. Proiect nr.8/ 2004, tema nr. 04-4-1069-2009/2011 *The extrinsic magnetoresistance of some $(Nd_{1-y}(In,Sc)_y)_{1-x}Sr_xMn_{1-x}O_3$* ,
3. Proiect nr. 18/ 2009, tema nr. 04-4-1069-2009/2011, *Magnetic/crystalline structure of some $(Ln, Ln')_{1-x}Alk_xMn_{1-x}T_xO_3$ manganites (Ln, Ln' - rare earth. T – transition metal*
7. ECO-NET nr.18825 VB/2008-2010 (partners: Franța, Romania, Moldova), *Synthesis and control of oxygen stoichiometry of new magnetic oxides. microstructure and applications for energy*
8. Proiect nr. 25/ 2010, tema nr. 04-4-1069-2009/2011 *Nonstoichiometry of oxygen influence on electronic phase diagram and transport mechanisms of some manganite cobaltites*
9. Proiect nr. 52 /2014, tema nr. 04-4-1121-2015/2017 *Synthesis by wet chemistry methods and properties of multiferroics materials of LnT_2O_5 and $LnTO_3$ types (Ln=Dy, Er, Ho, Eu. T=Mn, Fe)*
6. Proiect nr. 65 /2015, tema nr. 04-4-1121-2015/2017 *Multiferroics nanomaterials of type $AMnO_3$ and RMn_2O_5 obtained by hydrothermal method using low temperatures and high pressures*
7. Proiect nr. 68 /2016, tema nr. 04-4-1121-2015/2017 *Influence of lead doped manganites of type $La(Ho, Nd)_{0.54}Sr(Ca, Ba)_{0.35-x}Pb_xMnO_3$ on the microstructural, magnetic and transport properties.*
8. Proiect nr. 53/2017, tema nr. 04-4-1121-2015/2017, *Competition between ferromagnetism and spin glass: the key for large magnetoresistance in polycrystalline manganites*
9. Proiect nr.488/2018, tema nr. 04-4-1121-2015/2020 *Influence of iron substitution with other transitional metals of perovskites $(Ln,Sr)Fe_{1-x}M_xO_3$ (Ln=La, Sm, Nd. M=Cr, Mn, Co)*
10. Grant nr. 26/2020, tema nr. 04-4-1105-2015/2020, *The humidity influence on the structural state of the surface and charge-transport processes in nanostructured doped zirconia materials*
11. Proiect nr. 51/2020, tema nr. 04-4-1122-2015/2020, *The study of water adsorption at nanostructured materials surfaces, by using nuclear -physical methods*
12. Proiect nr. 58/2021, tema nr. 04-4-1143-2021/2025, *Research of metastable crystal phases in nanoscale oxide system based on ZrO_2 for applications in adsorption power engineering and electronics using nuclear physics methods*
13. Proiect nr. 30/2021, tema nr. 04-4-1142-2021/202, *5Composites based on perovskites and hexaferrites: synthesis, magnetic properties, transport characteristics*

Declarație

Declar pe propria răspundere că informațiile conținute în lista de lucrări și proiecte sunt corecte și conforme cu realitatea.

11 iunie 2026

Lect. univ. dr. Carmen MÎȚĂ