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EXPERIENȚA PROFESIONALĂ

ACTIVITATE DE EVALUARE ȘI EXPERTIZĂ

Cercetare in domeniul nanomaterialelor avansate: metode de sinteza, metode de caracterizare, testari in vederea aplicabilității materialelor sintetizate. Îmbunătățirea proprietăților materialelor nanostructurate pentru aplicații țintite.

DOMENII DE COMPETENȚĂ

Sinteza materiale avansate in nanoreactoare, eliberare controlata de principii active, cataliza si fotocataliza pe materiale nanostructurate.

ACTIVITATEA ȘTIINȚIFICĂ (vezi ANEXE)

ARTICOLE PUBLICATE IN REVISTE ISI (inclusiv citari):

1. Maria Alexandroaei, Maria Ignat, Ioan Gabriel Sandu, "**The Removal of the Pb²⁺ Ions from Solutions by a Hydroxyapatite Nanomaterial**", REV CHIMIE (BUCHAREST) nr. 10 (2013), pp 1100-1105, IF: **0.538**
2. Feraru, S., Samoila, P., Borhan, A.I., Ignat, M., Iordan, A.R., Palamaru, M.N., „**Synthesis, characterization of double perovskite Ca₂MSbO₆ (M = Dy, Fe, Cr, Al) materials via sol-gel auto-combustion and their catalytic properties**”, Materials Characterization 84 (2013), pp. 112-119, IF: **1.880**
3. Alexandru Cecal, Maria Ignat , Nicoleta Melniciuc Puica, „**Kinetics of Co(II) and V(IV) adsorption on zeolites**”, **Environmental Engineering and Management Journal** 2013, accepted for publication, IF: **1.435**
4. N. Rezlescu, E. Rezlescu, C. Doroftei, P.D. Popa, M. Ignat, "**Nanostructured lanthanum manganite perovskites in catalyst applications**", Digest Journal of Nanomaterials and Biostructures, 8(2) (2013) 581-587, IF: **1.092**

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 5. N. Rezlescu, E. Rezlescu, P. D. Popa, C. Doroftei, M. Ignat, „**Nanostructured GdAlO₃ perovskite, a new possible catalyst for combustion of volatile organic compounds**”, *Journal of Materials Science* 48 (12) (2013), pp. 4297-4304, IF: **2.015**
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- 1) Nanocrystalline SrMnO₃ powder as catalyst for hydrocarbon combustion, Doroftei, C., Popa, P.D., Rezlescu, E., Rezlescu, N., *Journal of Alloys and Compounds* 584 (2014), pp. 195-198
 6. I.F. Alexa, C.G. Pastravanu, M. Ignat, E. Popovici, „**A comparative study on long-term MTX controlled release from intercalated nanocomposites for nanomedicine applications**”, *Colloids and Surfaces B: Biointerfaces*, 106 (2013) 135–139, IF: **3.456**
 7. Rezlescu, N., Rezlescu, E., Popa, P.D., Popovici, E., Doroftei, C., Ignat, M., „**Preparation and**

characterization of spinel-type $MeFe_2O_4$ (Me = Cu, Cd, Ni and Zn) for catalyst applications", Materials Chemistry and Physics 137(2013), 922-927, IF: 2.234

CITATIONS 4:

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 - 2) Synthesis, structural characterization, and magnetic property of nanostructured ferrite spinel oxides (AFe_2O_4 , A = Co, Ni and Zn), Luadthong, C., Itthibenchapong, V., Viriya-Empikul, N., Faungnawakij, K., Pavasant, P., Tanthapanichakoon, W., *Materials Chemistry and Physics* 143 (1) (2013), pp. 203-208.
 - 3) Preparation and catalytic activity in ethanol combustion reaction of cobalt-iron spinel catalysts, Hammiche-Bellal, Y., Benadda, A., Meddour-Boukhobza, L., Barama, S., Djadoun, A., Barama, A., *Catalysis Communications* 42 (2013), pp. 62-67.
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8. Rezlescu, N., Rezlescu, E., Popa, P.D., Popovici, E., Doroftei, C., Ignat, M., Barbinta, A.C., **"Morphological and structural aspects of some ferrosinzel nanopowders for catalyst applications", Digest Journal of Nanomaterials and Biostructures 7(4) (2012), 1709-1717, IF: 1.200**
9. A. Cecal, D. Ganju, M. Ignat, N. Melniciuc-Puica, P. Samoila, **"Recovery of Fe^{3+} , Ti^{4+} and Ni^{2+} ions from the resulted sludges in uranium ores processing, by means of 4 zeolites", Environmental Engineering and Management Journal 2012, accepted for publication, IF: 1.435.**
10. Iuliana F. Alexa, Maria Ignat, Roxana Florentina Popovici, Daniel Timpu, Eveline Popovici, **"In vitro controlled release of antihypertensive drugs intercalated into unmodified SBA-15 and MgO modified SBA-15 matrices", International Journal of Pharmaceutics, Volume 436, Issues 1-2, 15 (2012) 111-119, IF: 3.350.**

CITATIONS 1:

- 1) A comparative study on long-term MTX controlled release from intercalated nanocomposites for nanomedicine application, I.F. Alexa, C.G. Pastravanu, M. Ignat, E. Popovici *Colloids and Surfaces B: Biointerfaces*, 106 (2013) 135-139.
11. Maria Ignat, Cristina Coromelci, Evelini Popovici, **" TiO_2 -coated Ordered Mesoporous Carbon for Phenol Photodegradation", Revista de Chimie, 63, nr. 4, 2012, pp. 358-361, IF: 0,693**

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13. Maria Ignat, Maria Alexandroaei, Neculai Cătălin Lungu, **"The Removal of the Zn^{2+} Ions from Groundwater using Hydroxiapatite Nanoparticles", Revista de Chimie, 62, No.5, 2011. IF: 0.693**

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- 2) Fabrication and Pb(II) adsorptive properties of magnetic hydroxyapatite, Yang, H., Zhang, H., Huang, C., Huang, R., Li, L., *Cailliao Yanjiu Xuebao/Chinese Journal of Materials Research* 26 (6) (2012), pp. 621-626.
 - 3) Synthesis and characterization of nano hydroxyapatite used for immobilizing heavy metals, Saplontai, M., Balc, N., Saplontai, V., Cojocaru, I., Toth, R., Moldovan, M., *Revista de Chimie* 63 (12) (2012), pp. 1228-1230
14. Maria Ignat, Evelini Popovici “**Synthesis of Mesoporous Carbon Materials via Nanocasting Route Using glycerol compare to Sucrose as Carbon Sources**”, *Revue Roumaine de Chimie*, 56 (10-11), pp. 947-952, 2011, IF: **0.311**
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- 1) Layered Double Hydroxides Nanohybrid Intercalation with Folic Acid Used as Delivery System and their Controlled Release Properties, Bashi, A.M., Haddawi, S.M., Mezaal, M.A., *Arabian Journal for Science and Engineering* 38 (7) (**2013**), pp. 1663-1680.
 - 2) *A comparative study on long-term MTX controlled release from intercalated nanocomposites for nanomedicine application*, I.F. Alexa, C.G. Pastravanu, M. Ignat, E. Popovici, *Colloids and Surfaces B: Biointerfaces*, 106 (**2013**) 135– 139.
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16. M. Ignat, C.J. Van Oers, J. Vernimmen, M. Mertens, S. Potgieter-Vermaak, V. Meynen, E. Popovici, P. Cool, „**Textural property tuning of ordered mesoporous carbon obtained by glycerol conversion using SBA-15 silica as template**”, *CARBON*, 48, 5 (2010) 1609-1618, IF: **4.893**, SRI: **2.933**
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 - 3) Nitrogen and sulfur co-doped ordered mesoporous carbon with enhanced electrochemical capacitance performance, Zhang, D., Hao, Y., Zheng, L., Ma, Y., Feng, H., Luo, H., **2013**, *Journal of Materials Chemistry A1* (26) , pp. 7584-7591.
 - 4) A comparative study on long-term MTX controlled release from intercalated nanocomposites for nanomedicine applications, Alexa, I.F., Pastravanu, C.G., Ignat, M., Popovici, E., **2013**, *Colloids and Surfaces B: Biointerfaces* 106 , pp. 135-139.
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 - 8) Importance of the α -plot method in the characterization of nanoporous materials, Villarroel-Rocha, J., Barrera, D., Blanco, A., Jalil, M., Sapag, K., **2013**, *Adsorption Science and Technology* 31 (2-3) , pp. 165-183.
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 - 11) Carbon black texture evolution during catalytic methane decomposition, Kameya, Y., Hanamura, K., **2012**, *Carbon* 50 (10) , pp. 3503-3512.
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 - 20) Biomolecules adsorption onto ordered mesoporous carbon, Ignat, M., Alexa, I., Popovici, E., **2010**, *European Cells and Materials* 20 (SUPPL.3) , pp. 119
17. E. Dvininov, M. Ignat, P. Barvinschi, M. A. Smithers, E. Popovici **"New SnO₂/MgAl-layered double hydroxide composites as photocatalysts for cationic dyes bleaching"**, *Journal of Hazardous Materials* 177 (2010) 150–158, IF: **4.144**.

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- 2) *Multilayer films of layered double hydroxide/polyaniline and their ammonia sensing behavior*, Xu, D.-M., Guan, M.-Y., Xu, Q.-H., Guo, Y., **2013**, *Journal of Hazardous Materials* 262 , pp. 64-70.
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- 5) *Synthesis, characterization and photocatalytic activity of mixed oxides derived from ZnAlTi ternary layered double hydroxides*, Sahu, R.K., Mohanta, B.S., Das, N.N., **2013**, *Journal of Physics and Chemistry of Solids* 74 (9) , pp. 1263-1270.
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 - 7) *Amino acid-assisted synthesis of superparamagnetic CoFe₂O₄ nanostructures for the selective adsorption of organic dyes*, Dong, M., Lin, Q., Chen, D., Fu, X., Wang, M., Wu, Q., Chen, X., Li, S., **2013**, *RSC Advances* 3 (29) , pp. 11628-11633.
 - 8) *Multi-cationic layered double hydroxides: Calcined products as photocatalysts for decomposition of NO_x*, Sarkarat, M., Komarneni, S., Rezvani, Z., Wu, X., Yin, S., TsugioSato, Yan, Z.-F., **2013**, *Applied Clay Science* 80-81 , pp. 390-397.
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1. Maria Ignat, Aurica Farcas, Aurelia Vasile, Eveline Popovici **"Calixarene-modified multi-wall carbon nanotubes"**, *Studies in Surface Science and Catalysis*, 174, 1 (2008) 389-392, ISSN: 01672991.

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 3. Maria Ignat and Evelini Popovici, **"Layered Porous Carbons Based on Montmorillonitic Structure"** în cartea *"Synthesis and Characterization of Nanostructured Materials"*, ©Macmillian Publishers India Limited, Advanced Research Series, eds. V. Rajendran, B. Hillbrands, K. Saminathan, K.E. Geckeler, 411-416 (2010), ISBN: 0230-33193-9.
 4. Roxana Popovici, Maria Ignat, Aurica Farcas, Evelini Popovici, Victor A. Voicu, **"New Design of Controlled Captopril-Release System Based on Captopril/Calix[8]arene Inclusion Complex"** în cartea *"Processes and Characterization of advanced Nanosstructured Materials"*, ©Macmillian Publishers India Limited, Advanced Research Series, eds. V. Rajendran, B. Hillbrands, N. Meenakshisundaram, K.E. Geckeler, 159-164 (2010), ISBN: 0230-33199-8.
 5. Alexa, Iuliana Florentina; Ignat, Maria; Sunel, Valeriu; Popovici, Evelini, **"In vitro controlled - release of nanobiomaterials based on captopril"** – *Proceedings of the 5th International FEZA Conference*, 969-970 (2011), ISBN: 978-84-8363-722-7 (electronic), Ref. editorial: 6029
- Rezlescu, N., Rezlescu, E., Doroftei, C., Popa, P.D., Ignat, M., **"Semiconducting spinel ferrite powders prepared by self-combustion method for catalyst applications"**, *Proceedings of the International Semiconductor Conference, CAS 2* (2012), art. no. 6400782, pp. 287-290.

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2. Alexandroaiei M., Ignat M., **TEMPLATE ASSISTED SYNTHESIS OF HYDROXYAPATITE FOR HEAVY METALS REMOVAL FROM WASTEWATER**, Conferința Internațională de Științe Aplicate. Chimie și Inginerie Chimică – CISA 2013, 15-18 mai 2013, Bacău, ROMANIA
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- Aplicate. Chimie și Inginerie Chimică – CISA 2013, 15-18 mai 2013, Bacău, ROMANIA
4. **“Semiconducting spinel ferrite powders prepared by self-combustion method for catalyst applications”**, N. Rezlescu, E. Rezlescu, C. Doroftei, P.D. Popa, M. Ignat, 34th International Semiconductor Conference CAS 2012, 15-17 Octombrie, Sinaia, Romania
 5. **“Mesoporous Carbon Pipes – Suitable Materials for Photocatalytic Supports”** Maria Ignat, Cristina Păstravanu, Evelini Popovici – 33rd International Semiconductor Conference CAS 2010, 11-13 Octombrie, Sinaia, Romania
 6. **“Layered Porous Carbons Based on Montmorillonitic Structure”** Maria Ignat and Evelini Popovici - International Conference on Nanomaterials and nanotechnology NANO-2010, 13-16 December 2010, KRS Campus, Tiruchengode – Coimbatore, India.
 7. **“New Design of Controlled Captopril-Release System Based on Captopril/Calix[8]arene Inclusion Complex”** Roxana Popovici, Maria Ignat, Aurica Farcas, Evelini Popovici, Victor A. Voicu - International Conference on Nanomaterials and nanotechnology NANO-2010, 13-16 December 2010, KRS Campus, Tiruchengode – Coimbatore, India.
 8. **“Photocatalytic performance of some nanocomposites based on new romanian clinoptilolite tuffs from Chilioara area”** M. Ignat, G.D. Mihai, C. Calb, M. Alexandroaiei, N. Bilba, E. Popovici - ZEOLITE 2010 – The 8th International Conference on the Occurrence, Properties and Utilisation of Natural Zeolites, Sofia, Bulgaria, 10-18.07.2010.
 9. Maria Ignat, Alina Maria Tomoiaga, Aurelia Vasile, **Nanosized Bi(III)oxide/mesoporous silica photocatalyst for the wastewater treatment**, Third International Conference on Multifunctional, Hybrid and Nanomaterials, 3-7 March 2013, Sorrento (near Naples), Italy
 10. **“Exchange Properties of Templated Hydroxyapatite Compare to a Commercial Product”** Maria Alexandroaiei, Maria Ignat, *International Conference of Applied Sciences, Chemistry and Chemical Engineering – CISA 2012, Bacău, Romania, April 24th-27th 2012.*
 11. **“Mesoporous Carbon With High Sorption Property As Excellent Candidate For Wastewater Decontamination”**, Ignat Maria, Coromelci Cristina Giorgiana, Popovici Eveline, The V International Conference-Symposium ECOLOGICAL CHEMISTRY 2012, March 2-3, 2012, Academy of Sciences of Moldova (ASM)
 12. **“Preliminary Study On Recycling Wasted Degussa Photocatalysts In The Degradation Of Rose Bengal From Textile Wastwaters”**, Pastravanu Cristina, Cretescu Igor, Ignat Maria, Popovici Eveline, The V International Conference-Symposium ECOLOGICAL CHEMISTRY 2012, March 2-3, 2012, Academy of Sciences of Moldova (ASM)
 13. **“Preparation and Characterization of N-doped TiO₂ with Enhanced Photocatalytic Activity”** C. Păstrăvanu, M. Ignat, E. Popovici, I. Cretescu - INTERNATIONAL CONFERENCE on Nanotechnologies and Biomedical Engineering, German-Moldovan Workshop, July 7-8, 2011, Chișinău - Republic of Moldova
 14. **“In vitro controlled - release of nanobiomaterials based on captopril”** Alexa, Iuliana Florentina; Ignat, Maria; Sunel, Valeriu; Popovici, Evelini – 5th International FEZA Conference, 3rd - 7th July, 2011, Valencia – Spania
 15. **“Photoactive Characteristics of Nanosized ZnO/SnO₂ Systems”**, Maria Ignat, Diana Tanasa, Doina Lutic, Eveline Popovici - 1st International Workshop of the European Nanostructured Materials Institute of Excellence (ENMIX) “Nanostructured materials for sorption, separation and catalysis”, 4-5 Octombrie, 2010, Antwerpen – Belgia
 16. **“Pt-doped Mesoporous Semiconductive Oxides for Gas Sensing”**, Doina Lutic, Maria Ignat, Gina-Dumitrita Mihai, Elena-Mihaela Seftel, Eveline Popovici, Robert Bjorklund and Anita Lloyd Spetz - 1st International Workshop of the European Nanostructured Materials Institute of Excellence (ENMIX) “Nanostructured materials for sorption, separation and catalysis”, 4-5 Octombrie, 2010, Antwerpen – Belgia
 17. **“Biomolecules Adsorption onto Ordered Mesoporous Carbon”** M. Ignat, I. Alexa, E. Popovici - Third International NanoBio Conference 2010, August 24-27, ETH Zurich, Switzerland
 18. **“Comparative study of some mesoporous nano-vectors for controlled captopril delivery”** I.F. Alexa, R. Popovici, M. Ignat, E.M. Seftel, E. Popovici, V. Voicu- Third International NanoBio Conference 2010, August 24-27, ETH Zurich, Switzerland
 19. **“Synthesis of Mesoporous Carbon Materials via Nanocasting Route Using glycerol compare to Sucrose as Carbon Sources”** Maria Ignat, Evelini Popovici - RomPhysChem 14 – International Conference of Physical Chemistry, 2-4 Iunie, 2010, Academia Română, București – Romania
 20. **“Preparation and characterization of mesoporous SBA-15 supported TiO₂/SnO₂ photocatalysts”** G.D. Mihai, E.M. Seftel, M. Ignat, D. Timpu, N. Bilba, E. Popovici - RomPhysChem 14 – International Conference of Physical Chemistry, 2-4 Iunie, 2010, Academia Română, București – Romania
 21. **“Mesoporous carbon obtained from different glycerol loadings by a templating method”**, Ignat M., Mertens M., Popovici E., Cool P., Vansant E.F. - EUROACAT IX Congress, 30 August - 4 Septembrie, 2009, Salamanca – Spania

22. **“Calixarene-modified multi-wall carbon nanotubes”** Maria Ignat, Aurica Farcas, Aurelia Vasile, Eveline Popovici - Zeolites and related materials: Trends, targets and challenges, Proceedings of the 4th International FEZA Conference, 2-6 Septembrie, 2008, Paris – Franța

Citări CONFORM BAZEI DE DATE SCOPUS: 67.

Indice Hirsh = 4

REFERENT ȘTIINȚIFIC:

1. Journal of Colloid and Interface Science
2. Drug Delivery

DIRECTOR / RESPONSABIL GRANTURI DE CERCETARE / DEZVOLTARE:

- cu finanțare internă:
 - 1) 01.05.2013-30.04.2015, Proiect PN-II-RU-PD-2012-3-0357, finanțat CNCS – UEFISCDI;
- cu finanțare externă:
 - 1) 01.2012 – 12.2012, Grant “Design of nanostructured carbon materials for waste water remediation processes” Investigations of Nano systems and Novel Materials by Neutron Scattering Methods, nr of theme 04-4.1069.2009/2013 within IUCN, GRANT no 17/3901-4-09
 - 2) 01.2013 – 12.2013, Grant “Synthesis and structure of nanooxides used for degradation of organics from waste waters”, Protocol no. 4178-4-2011/2013, Topic No. 04-4-1069-2009/2014, IUCN-DUBNA

**EXPERIENȚĂ DE LUCRU ÎN
CERCETARE ȘI INSTRUIRE**

COLABORATOR ÎN GRANTURI DE CERCETARE

1. 24.05.2007 – 28.02.2008, Member in CEEX No.1/S1/2005 Project, MATNANTECH, Al. I. Cuza University of Iasi, Romania.
2. 1.03.2008 – 31.06.2009, Research stage in Concerted Research Project sponsored by the Special Fund for Research at University of Antwerp and the Inside-Pores project (EU-FP6 NoE), Antwerpen University.
3. 1.10.2009 – 20.12.2009, Member in SootSens I – “Soot Sensors for a Healthy Environment” – ERA-NET Project MNT7/011/2008, Al. I. Cuza University of Iasi, Romania.
4. 1.07.2010 – 31.12.2010, Member in SootSens II – “Soot Sensors for a Healthy Environment” – ERA-NET Project MNT 7-028/2010, Al. I. Cuza University of Iasi, Romania.
5. 1.02.2011 – 1.02.2012, Member in „Studii Privind Entraparea Enoxilului în Matrici Poroase în Scopul Îmbunătățirii Activității Antioxidante” Project, 1/30.01.2011, Al. I. Cuza University of Iasi, Romania – AȘM Chișinău, Moldova.
6. 01.2011 – 12.2011, Member in „Structura materialelor carbonice functionalizate endohedral cu oxizi metalici semiconductori. Metode de sinteza inovative.” Project, 3901-4-09/11, 04-4-1069-2009/2011
7. 15.11.2011 - 5.10.2014, PN-II-ID-PCE-2011-3-0453 „NEW NANOSCTRUCTURED OXIDE MATERIALS, FERRITES AND PEROVSKITES, FOR THE CATALYTIC COMBUSTION OF SOME GASES IN LOW CONCENTRATIONS”, program IDEAS
8. 01.2012 – 12.2012, Member in “Efficient photocatalytic degradation of organics from waste waters. Investigations of Nano systems and Novel Materials by Neutron Scattering Methods” Projects, nr of theme 04-4.1069.2009/2013 within IUCN, GRANT no 19/3901-4-09
9. 01.04.2012 – 30.09.2012, Rețea transnațională de management integrat al cercetării postdoctorale în domeniul Comunicarea științei. Construcție instituțională (școală postdoctorală) și program de burse (CommScie) POSDRU/89/1.5/S/63663
10. 01.2013 – 12.2013, Member in “Efficient photocatalytic degradation of organics from waste waters using nanosized oxides designed with micro and mesoporous materials”, Protocol number 4178-4-2011/2013, Topic No. 04-4-1069-2009/2014, within IUCN, Romania – JINR-Dubna
11. 01.02.2012 – 31.12.2013, Member in “Strengthening the Romanian research capacity

in Multifunctional Polymeric Materials” Project, Call: FP7-REGPOT-2010-1, Grant Agreement no: 264115

SPECIALIZĂRI
POSTUNIVERSITARE

2012 - asistent universitar, prin concurs, la Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Chimie;

2008 – 2009 (18 luni), bursa de cercetare doctorat la Universitatea Antwerpen, Belgia

2012 (6 luni), bursa de cercetare postdoctorala Universitatea “Al.I. Cuza”, Iasi, Roamania

EDUCAȚIE

2011 doctorat în Chimie, Specialitatea Chimie

2003 iunie, examen de licența la Facultatea de Chimie, Universitatea “Al.I.cuza”;

2000 iunie, examen de bacalaureat, Liceul cu profil Real, Chisinau, R. Moldova;

1998: Școala primară și gimnazială; s. Pepeni, r-nul Singerei, R. Moldova.

MEMBRU ÎN SOCIETĂȚI
ȘTIINȚIFICE

Membru al Societatii Romane de Chimie din 2011

CUNOȘTINȚE UTILIZARE
COMPUTERE

Operare bună PC (Microsoft Office Word; Microsoft Office Power Point; Microsoft Office Excel; Origin, Internet (Explorer, Mozilla, Opera), Chem draw, Isis draw), operare specială aparate (UVProbe, MultiWin, Sasview, SAXS, AspectCS, NovaWin, SGI, QuadraWin.....). ș.a.

LIMBI STRĂINE
CUNOSCUȚE

Engleză
Franceză
Rusă

Înțelegere		Vorbire		Scriere	
Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă	
avansat	avansat	avansat	avansat	avansat	avansat
avansat	avansat	intermediar	intermediar	avansat	avansat
avansat	avansat	avansat	avansat	avansat	avansat

Iași
14.12. 2013