CURRICULUM VITAE

INFORMAŢII PERSONALE

Nume şi prenume	**Ignat Maria**
Adresă	Iasi, Pacurari 10
Telefon / Fax	0746505227
E-mail	maria.ignat@uaic.ro
Naţionalitate	Romana
Locul şi data naşterii	**Pepeni, Singerei, R. Moldova**

EXPERIENŢA PROFESIONALĂ

ACTIVITATE DE EVALUARE ŞI 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 COMPETENŢĂ

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

ACTIVITATEA ŞTIINŢIFICĂ *(vezi ANEXE)*

ARTICOLE PUBLICATE IN REVISTE ISI (inclusiv citari):

1. Maria Alexandroaei, Maria Ignat, Ioan Gabriel Sandu, "***The Removal of the Pb^{2+} 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 Ca_2MSbO_6 (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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   CITATIONS 1:
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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**
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2) Synthesis, structural characterization, and magnetic property of nanostructured ferrite spinel oxides (AFe2O4, 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 ferrospinel 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:

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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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2) Fabrication and Pb(II) adsorptive properties of magnetic hydroxyapatite, Yang, H., Zhang, H., Huang, C.,Huang, R., Li, L., *Cailiao 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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15. I. F. Alexa, R. F. Popovici, M. Ignat, E. Popovici,V. A.Voicu, "***Non-toxic nanocomposite containing captopril intercalated into green inorganic carrier***", **Digest Journal of Nanomaterials and Biostructures** Vol. 6 (3) 2011, p. 1091-1101, IF: **2.079**
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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 A*1 (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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17. E. Dvininov, M. Ignat, P. Barvinschi, M. A. Smithers, E. Popovici "***New SnO_2/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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M., Yang, J.-H., Choy, J.-H., **2013,** *Progress in Polymer Science* 38 (10-11) , pp. 1442-1486.
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ARTICOLE PUBLICATE IN CARTI IN EDITURI INTERNATIONALE:

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 Montmorilonitic 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 Nanosctructured 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.
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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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PARTICIPARI LA CONFERINTE INTERNATIONALE:

1. Cristina Giorgiana Pastravanu, Maria Ignat*, Evelini Popovici, ***Nitrogen-doped titania: hydrothermal vs. Ultrassound synthesis***, 5th International Symposium Advanced Micro- and Mesoporous Materials, September 6-9 2013, Golden Sands, Bulgaria.
2. Alexandroaiei M., Ignat M., ***TEMPLATE ASSISTED SYNTHESIS OF HYDROXYAPATITE FOR HEAVY METALS REMOVAL FROM WASTEWATER*****,** Conferinţa Internaţională de Ştiinţe Aplicate. Chimie şi Inginerie Chimică – CISA 2013, 15-18 mai 2013, Bacău, ROMANIA
3. Ignat M., Tomoiaga A.M., Vasile A., ***MESOPOROUS SILICA/BISMUTH OXIDE NANOCOMPOSITE FOR WASTEWATER TREATMENT***, Conferinţa Internaţională de Ştiinţe

Aplicate. Chimie şi 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 Montmorilonitic 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 areal***" 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 Alexandroaei, 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. "***Prelyminary 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 TiO_2 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, Chişinău - 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/SnO_2 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, Bucureşti – Romania
20. "***Preparation and characterization of mesoporous SBA-15 supported TiO_2/SnO_2 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, Bucureşti – Romania
21. "***Mesoporous carbon obtained from different glycerol loadings by a templating method",*** Ignat M., Mertens M., Popovici E., Cool P., Vansant E.F. - EUROPACAT 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 – Franţa

Citări CONFORM BAZEI DE DATE SCOPUS: 67.

Indice Hirsh = 4

REFERENT ŞTIINŢIFIC:

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

DIRECTOR / RESPONSABIL GRANTURI DE CERCETARE / DEZVOLTARE:

- cu finanţare internă:
  1) 01.05.2013-30.04.2015, Proiect PN-II-RU-PD-2012-3-0357, finantat CNCS – UEFISCDI;
- cu finanţare 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

EXPERIENŢĂ DE LUCRU ÎN CERCETARE ŞI 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 MNT/7/011/2008, 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 Îmbunătăţirii Activităţii Antioxidante" Project, 1/30.01.2011, Al. I. Cuza University of Iasi, Romania – AŞM Chişinău, 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

2012 - **asistent universitar**, prin concurs, la Universitatea „Alexandru Ioan Cuza" din Iaşi, Facultatea de Chimie;

SPECIALIZĂRI POSTUNIVERSITARE

2008 – 2009 (18 luni), bursa de cercetare doctorat la Universitatea Antwepen, Belgia
2012 (6 luni), bursa de cercetare postdoctorala Universitatea "Al.I. Cuza", Iasi, Roamania

EDUCAŢIE

2011 doctorat în Chimie, Specialitatea Chimie
2003 iunie, examen de licenta la Facultatea de Chimie, Universitatea "Al.I.cuza";
2000 iunie, examen de bacalaureat, Liceul cu profil Real, Chisinau, R. Moldova;
1998: Şcoala primară şi gimnazială; s. Pepeni, r-nul Singerei, R. Moldova.

MEMBRU ÎN SOCIETĂŢI ŞTIINŢIFICE

Membru al Societatii Romane de Chimie din 2011

CUNOŞTINŢE UTILIZARE COMPUTERE

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

LIMBI STRĂINE CUNOSCUTE

	Înţelegere			Vorbire				Scriere	
	Ascultare		Citire		Participare la conversaţie		Discurs oral		Exprimare scrisă
Engleză		avansat		avansat		avansat		avansat		avansat
Franceză		avansat		avansat		intermediar		intermediar		avansat
Rusă		avansat		avansat		avansat		avansat		avansat

Iaşi
14.12. 2013