




INFORMAȚII PERSONALE



Maria Andries

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EXPERIENȚA PROFESIONALĂ

- Ian 18–Prezent **Software Developer**
Continental Automotive Romania SRL, Iasi (România)
- Ian 14–Oct 17 **Cercetator stiintific**
Universitatea Alexandru Ioan Cuza Iași, Facultatea de Fizică, "Centrul de cercetări avansate în Științele Vieții și Nanoștiințe", Iasi (România)
- Iun 14–Aug 14 **Fizician medical - voluntariat**
Institutul Regional de Oncologie, Iasi (România)
Sectia Radioterapie
- Apr 14–Iun 14 **Tehnician medical - voluntariat**
Institutul Regional de Oncologie, Iasi (România)
Sectia Radioterapie
- Iun 13–Sept 13 **Student Erasmus**
Department of Medical Physics, School of Medicine, University of Patras, Patras (Grecia)
Tema activitate stiintifica: Quantitative Diffusion Weighted Breast MRI
- Mai 11–Iun 11 **Student - practica**
Institutul de Chimie Macromoleculară Petru Poni, Iasi, Iasi (România)
Stagiu de pregatire practică
Corelarea notiunilor teoretice cu cele practice – Laborator Spectroscopie RMN

EDUCAȚIE ȘI FORMARE

- Oct 14–Prezent **Doctor in Fizica**
Universitatea Alexandru Ioan Cuza Iași, Facultatea de Fizică, Iasi (România)
Specializarea: Științe exacte-Fizica
- Oct 12–Iul 14 **Diplomă de master**
Universitatea Alexandru Ioan Cuza Iași, Facultatea de Fizică, Iasi (România)
Specializarea: Biophysics and Medical Physics - Master acreditat in limba engleza
- Oct 09–Iul 12 **Diploma de licenta**
Universitatea Alexandru Ioan Cuza Iași, Facultatea de Fizică, Iasi (România)

Specializarea: Fizica medicala

Sept 05–Iun 09

Diplomă de Bacalaureat

Liceul “Mihail Sadoveanu”, Neamt (România)

Specializarea: Matematica-Informatica

COMPETENȚE PERSONALE

Limba(i) maternă(e)

Română

Limbile străine

Engleză

ÎNȚELEGERE		VORBIRE		SCRIERE
Ascultare	Citire	Participare la conversație	Discurs oral	
C1	B2	B2	B2	B2
Atestat de limba engleza - nivel B2				

Niveluri: A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimentat
Cadrul european comun de referință pentru limbi străine

Competențe de comunicare

Abilități de comunicare și de lucru în echipă dobândite în cadrul activităților de voluntariat și training;

Competențe dobândite la locul de muncă

Abilitati de lucru in echipa;
 Bune abilitati de lucru cu instrumente de laborator si manevrare a substantelor chimice;
 Abilitati de lucru cu aparatura de laborator - biofizica;
 Abilitati de intocmire si prezentare a unei lucrari stiintifice;
 Abilitati de invatare rapida si aplicare a noi metode tehnologice;

Competențele digitale

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat

Competențele digitale - Grilă de auto-evaluare

Alte competențe

Spirit de echipa, seriozitate, corectitudine, onestitate, perseverenta, cumpatare, exigenta, sociabilitate. Respectarea principiilor morale autohtone si universal valabile. Fidelitate fata de angajator, fata de interesul comun si/sau strategic, cu respectarea legii si ale principiilor morale.

Permis de conducere

B

INFORMAȚII SUPLIMENTARE

International training school participations

9th CENTRAL EUROPEAN TRAINING SCHOOL on neutron technique - CETS2015, 4-8 Mai 2015, Budapest, Hungary.
 1st Autumn School on Physics of Advanced Materials (PAMS-1), 22-28 Septembrie 2014, Iasi, Romania.
 LLP-ERASMUS Training Programme Abroad, Department of Medical Physics, School of Medicine,

University of Patras, Greece, Iunie-Septembrie 2013.

Proiecte de cercetare internationale

1. Member of the research team of bilateral project Romania-JINR Dubna 2017, "The study of some nanocomposites based of grapheme for applications in modern electronics and energy conversion and storage";
2. Member of the research team of bilateral project Romania-JINR Dubna 2016, "Synthesis and characterization of some nanoparticles, nanocomposites and thin films for medical applications";
3. Member of the research team of bilateral project Romania-JINR Dubna No 79 Protocol 4403-4-2015/2017, "Yielding of magnetic nanoparticles with various chemical composition and study of their bioeffects"
4. Member of the research team of bilateral project Romania-JINR Dubna No 80 Protocol 4403-4-2015/2017, "Gold nanoparticles in aqueous suspension for applications in environment sciences"
5. Member of the research team of bilateral project Romania-JINR Dubna No 83 Protocol 4415-4-2015/2017, "Synthesis and characterization of some nanoparticles, nanocomposites and thin films for medical applications"
6. Member of the research team of bilateral project Romania-JINR Dubna No 88 Protocol 4401-4-2015/2017, "Silver nanoparticles preparation by chemical methods and their structural investigation"
7. Member of the research team of bilateral project Romania-JINR Dubna No 89 Protocol 4401-4-2015/2017, "Magnetic nanoparticles impact on some microorganisms involved in forestry waste degradation"
8. Member of the research team of bilateral project Romania-JINR Dubna No 57 Protocol 4403-4-2015/2017, "Metal based nanoparticles and some bioeffects"

Proiecte de cercetare nationale

1. Member of the research team of the project PN-II-RU-TE-2014-4-2388, "Metodă bazată pe nanopori de detecție și cuantificare a bacteriilor prin interacțiunea selectivă a peptidelor antimicrobiene cu membrane bacteriene"
2. Member of the project POSDRU/187/1.5/S/155397, "The doctoral scholarships to a new generation of the elite researchers"

Membership

Member of "Center for Advanced Research in Life Sciences and Nanosciences" from "Alexandru Ioan Cuza" University;

Member of the Organizing Committee ICPAM-1 and PAMS-1 (10th International Conference on Physics of Advanced Materials and 1st Autumn School on Physics of Advanced Materials).

Scientific papers and articles published

Articles published ISI

1. **Maria Andries**, Daniela Pricop, Lacramioara Oprica, Dorina Creanga, Felicia Iacomi, The effect of visible light on gold nanoparticles and some bioeffects on environmental fungi, International Journal of Pharmaceutics, 2016;- **Impact Factor: 3.99, AIS: 0.797.**
2. Daniela Pricop, Raoul-Vasile Lupusoru, **Maria Andries**, Dorina Creanga, Light wavelength influence on surface plasmon resonance in citrate-gold nanosystems, Journal of Molecular Structure, 2015;- **Impact Factor: 1.602, AIS: 0.295.**
3. **Maria Andries**, Daniela Pricop, Marian Grigoras, Nicoleta Lupu, Liviu Sacarescu, Dorina Creanga, Felicia Iacomi, Comparative study on the uptake and bioimpact of metal nanoparticles released into environment, AIP Conference Proceedings. 2015
4. Claudia Nadejde, **Maria Andries**, Emil Puscasu, Dorina Creanga, Maria Balasoiu, Magnetic contamination of environment – laboratory simulation of mixed iron oxides impact on microorganism cells, Environmental Engineering and Management Journal, 2015;- **Impact Factor: 1.065, AIS: 0.074**

Articles published non-ISI

1. Lacramioara Oprica, **Maria Andries**, Claudia Nadejde, Florin Brinza, Dorina Creanga, Co_{0.5}Fe_{2.5}O₄ Nanoparticle Biological Impact-Comparative Study on Environmental Cellulolytic Fungi, Technical Proceedings of the 2015 TechConnect World.
2. Dana Pricop, **Maria Andries**, Endocytosis and exocytosis of gold nanoparticles, Romanian J Biophys., 2015.
3. Emil Puscasu, **Maria Andries**, Claudia Nadejde, Dorina Creanga, Synthesis of magnetic

nanoparticles in stable suspension for biomedical application, The scientific journal V. Adamachi, 2014;

4. Maria Andries, Emil Puscasu, Claudia Nadejde, Lacramioara Oprica, Dorina Creanga, Cobalt ferrite nanoparticles effect on cellulolytic fungus phanerochaete chrysosporium, Romanian Jurnal of Biophysics, 2014;

5. Carmen Popescu, **Maria Andries**, Utilizarea microscopului inversat la studiul nanoparticulelor metalice in tesuturi, Volumul conferinței naționale de bioinginerie medicala pentru studenti si tineri cercetatori, Editia a XVII-a, Iasi 2014, Editura „Gr. T. Popa”, U. M. F. Iași;

6. Maria Andries, Emil Puscasu, Claudia Nadejde, Marius Enache, Dorina Creanga, Studiul complexelor clortetraciclina/ciclodextrina pentru atasare la nanoparticule magnetice utilizabile ca vectori in eliberarea controlata de molecule bioactive, Volumul conferinței naționale de bioinginerie medicala pentru studenti si tineri cercetatori, Ediția a XVI-a, Iasi 2013, Editura „Gr. T. Popa”, U. M. F. Iași;

7. Enache Marius, Aparaschivei Alina, Vrincianu Diana, **Andries Maria**, Condrea Anisoara, Airinei Anton, Nadejde Claudia, Creanga Dorina NMR investigation of molecular interactions between cyclodextrin and tetracycline -applicative lesson for the master students, Adamachi, 2012.

International conferences participations

Oral presentations

1. Lacramioara Oprica, Claudia Nadejde, **Maria Andries**, Emil Puscasu, Dorina Creanga, Maria Balasoiu, Magnetic contamination of environment-laboratory simulation based on mixed iron oxides influence on microorganism cells, Conferinta Internationala Physics Of Materials PM-4, Noiembrie 2014, București, Romania;

2. Lacramioara Oprica, Claudia Nadejde, **Maria Andries**, Emil Puscasu, Dorina Creanga, Maria Balasoiu, Experimental study on the impact of engineered particles on environmental microflora, 2nd International Conference on Chemical Engineering, 2014, Iasi, Romania;

3. Claudia Nadejde, **Maria Andries**, Emil Puscasu, Gabriel Oanca, Laura Ursu, Nanostructured materials with magnetic properties in stable colloidal form, Twelfth Young Researchers Conference- Materials Science and Engineering, 2013, Belgrade Serbia.

Poster presentations

1. Raoul Lupusoru, Daniela A Pricop, **Maria Andries**, Marius Dobromir, Mihaela Avadanei, Felicia Iacomi, The influence of light exposure on photobiocatalytic properties of various sized gold nanoparticles, 11th International Conference On Physics Of Advanced Materials (ICPAM-11), 8-12, 2016, Cluj Napoca, Romania;

2. **Maria Andries**, Daniela Pricop, Marian Grigoras, Nicoleta Lupu, Liviu Sacarescu, Dorina Creanga, Felicia Iacomi, Comparative study on the uptake and bioimpact of metal nanoparticles released into environment, 10th Biennial International Conference on Processes in Isotopes and Molecules (PIM 2015), 2015, Cluj-Napoca, Romania;

3. **Maria Andries**, Daniela Pricop, Raul Lupusoru, Emil Puscasu, Felicia Iacomi, Dorina Creanga, Light wavelength influence on surface plasmon resonance in citrate-gold nanosystems, XIIIth International conference on molecular spectroscopy - From molecules to molecular materials, molecular biological systems and nanostructures, 2015, Wrocław, Polonia;

4. Emil Puscasu, **Maria Andries**, Mihaela Racuciu, Felicia Iacomi, Dorina Creanga, Experimental Study on the Core-Shell Interactions in the Case of Magnetic Grains Coated with Organic Molecules, XIIIth International conference on molecular spectroscopy-From molecules to molecular materials, molecular biological systems and nanostructures, 2015, Wrocław, Polonia;

5. **Maria Andries**, Daniela A. Pricop, Lacramioara Oprica, Dorina Creanga and Felicia Iacomi, The effect of visible light on gold nanoparticles and some bioeffects on environmental fungi, The 8th international conference on advanced materials-ROCAM,2015, Bucuresti, Romania;

6. Lacramioara Oprica, **Maria Andries**, Claudia Nadejde, Florin Brinza, Dorina Creanga, Co_{0.5}Fe_{2.5}O₄ Nanoparticle Biological Impact-Comparative Study on Environmental Cellulolytic Fungi, Nanotech Conference, 14-17, 2015, Washington DC;

7. **Maria Andries**, Nanostructured materials with magnetic properties - impact on environmental microflora, 9th Central European Training School on neutron technique - CETS2015, 2015, Budapesta, Ungaria;

8. Claudia Nadejde, **Maria Andries**, Emil Puscasu, Florin Brinza, Laura Ursu, Dorina Creanga, Cristina Stan, Preparation of soft magnetic materials and characterization with investigation methods for fluid samples, Conferinta Internationala Physics Of Materials Pm-4, 2014 București, Romania;

9. Lacramioara Oprica, Gina Balan, Carmen Popescu, Rodica Muresan, Daniela Pricop, **Maria Andries**, Augustin Muresan, Investigation of the chemical treatment effect on the environmental fungi, 2nd International Conference on Chemical Engineering, 2014, Iasi, Romania;

10. Emil Puscasu, **Maria Andries**, Claudia Nadejde, Lacramioara Oprica, Dorina Creanga, Magnetic fluid preparation, characterization and environmental application, ICPAM 10, 2014, Iasi, Romania;

11. **Maria Andries**, Loredana Oprica, Dorina Creanga, The influence of magnetic nanoparticles on the oxidative activity in cellulolytic fungi, PAMS 1, 2014, Iasi, Romania.

National conferences participations

Oral presentations

1. Emil Puscasu, Cosmin Mihai, Liviu Sacarescu, **Maria Andries**, Claudia Nadejde, Dorina Creanga, Gabriela Vochita, *Assessment of the biological impact of some soft magnetic materials on mammalian cell line*, A XLIV-a Conferință Națională Fizica și Tehnologiile Educaționale Moderne- Iași, 16 May 2015.

2. Carmen Popescu, **Maria Andrieș**, Dorina Creangă, *Utilizarea microscopului inversat la studiul nanoparticulelor metalice in tesuturi*, Conferința națională de bioinginerie medicală pentru studenți și tineri cercetători, Ediția a XVII– a, Iasi, 2014.

Poster presentations

1. **Maria Andries**, Lacramioara Oprica, Emil Puscasu, Florin Brinza, Andrei Domocos, Claudia Nadejde, Emilia Creanga, Impact of cobalt ferrite nanoparticles on the metabolism of some cellulolytic fungi, A XLIV-a Conferință Națională Fizica și Tehnologiile Educaționale Moderne, 2015, Iasi, Romania;

2. **Maria Andries**, Emil Puscasu, Claudia Nadejde, Dorina Creanga, Steric vs electrostatic stabilization of magnetic nanoparticles in aqueous medium, Iasi IEEE Student Branch Scientific Meeting 5th edition, "A.I. Cuza" University of Iasi, December 2014, Iasi, Romania;

3. Emil Puscasu, **Maria Andries**, Claudia Nadejde, Dorina Creanga, Synthesis of magnetic nanoparticles in stable suspension for biomedical application, A XLIII-a Conferința Națională de Fizica și Tehnologii Educaționale Moderne, 2014, Iasi, Romania;

4. **Andries Maria**, Emil Puscasu, Anna Karahaliou, Georgios Vlachopoulos, Costaridou Lena, Quantitative Diffusion Weighted Breast MRI, XLII-a Conferința Națională de Fizica și Tehnologii Educaționale Moderne, 2013, Iasi, Romania;

5. **Maria Andrieș**, Emil Pușcașu, Claudia Nădejde, Marius Enache, Dorina Creangă, Studiul complexelor clortetracilină/ciclodextrină pentru atasare la nanoparticule magnetice utilizabile ca vectori în eliberarea controlată de molecule bioactive, Ediția a XVI– a a Conferinței Naționale de Bioinginerie pentru Studenți și Tineri Cercetători, 2013, Iasi, Romania.