

## 1. Personal information:

**Name and surname:** Claudia Nădejde

**Date and place of birth:** 29.09.1980, Onești (jud. Bacău), Romania

**Present academic position:** Scientific Researcher - Interdisciplinary Research Department: Science

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## 2. Education:

2011–2013 Postdoctoral fellow: Faculty of Physics, “Alexandru Ioan Cuza” University in Iași, Romania, in the frame of the project POSDRU/89/1.5/S/63663

2007–2010 Ph. D. in Physics: Faculty of Physics, “Alexandru Ioan Cuza” University in Iași, Romania

2005–2007 Master of Science degree in Biophysics and Medical Physics: Faculty of Physics, “Alexandru Ioan Cuza” University in Iași, Romania

1999–2003 Bachelor degree in Medical Physics: Faculty of Physics, “Alexandru Ioan Cuza” University in Iași, Romania

1995–1999 „Grigore C. Moisil” High School in Onești, Romania – Informatics

## 3. Selected, peer-reviewed research work:

1. Poiată, A., Creangă, D.E., Nădejde, C., Fifere, N., Airinei, A., *Chemically modified nanoparticles surface for sensing bacterial loading-experimental study based on fluorescence stimulation by iron ions*, **Bioelectrochemistry**, 93:51-58, **2013**;
2. Creangă, D., Nădejde, C., *Molecular modelling and spectral investigation of some triphenyltetrazolium chloride derivatives*, **Chemical Papers**, DOI: 10.2478/s11696-013-0429-2, **2013**;
3. Nădejde, C., Ursu, L., Creangă, D., Dorohoi, D., *Study on the solvatochromic behavior of rifampicin in diluted solutions*, **Revista de Chimie**, accepted, **2013**;
4. Răuciu, M., Creangă, D., Nădejde, C., *Comparison among the physical properties of various suspensions of magnetite nanoparticles stabilized in water using different organic shells*, **Sci. Bull. Politehnica University Bucharest – s. A: Physics and applied mathematics**, accepted, **2013**;
5. Poiată, A., Creangă, D., Nădejde, C., Tufescu, F., *Electromagnetic exposure and magnetic nanoparticle impact on some bacteria*, **Afr. J. Microbiol. Res.**, 6(5):1054-1060, **2012**;
6. Creangă, D., Poiată, A., Fifere, N., Airinei, A., Nădejde, C., *Fluorescence of pyoverdine synthesized by Pseudomonas under the effect of iron oxide nanoparticles*, **Rom. Biotech. Let.**, 16(4):6336-6343, **2011**;
7. Creangă, D., Nădejde, C., Gasner, P., *Dynamical analysis of heart beat from the viewpoint of chaos theory*, **Rom. J. Phys.**, 56(1-2):177-184, **2011**;
8. Nădejde, C., Ciurlică, E., Creangă, D.E., Cîrlesc, A., Bădescu, V., *Magnetite nanoparticles coated with rifampicin and chlortetracycline for drug delivery applications*, **AIP Conf. Proc.**, 1311(1):388-394, **2010**;
9. Nădejde, C., Creangă, D.E., Humelnicu, I., Filip, E., Dorohoi, D.O., *Study on the intermolecular interactions in rifampicin ternary solutions - Calculation of microscopic parameters of rifampicin molecules*, **Journal of Molecular Liquids**, 150(1-3):51-55, **2009**;
10. Nădejde, C., Creangă, D., Goiceanu, C., *Radiofrequency electromagnetic wave and paramagnetic particle effects on the red blood cells*, **Rom. J. Phys.**, 54(1-2):105-114, **2009**;
11. Creangă, D., Iacob, Gh., Ursache, M., Nădejde, C., Racuciu, M., *Magnetic fluids as drug carrier in magnetically assisted chemotherapy - An experimental study*, **J. Optoelect. Adv. Mat.**, 10:628-631, **2008**;
12. Creangă, D., Dulcescu, M., Nădejde, C., *Dynamic analysis on the heart electromagnetic activity*, **Sci. Bull. Politehnica University Bucharest – s. A: Physics and applied mathematics**, 70(4):97-102, **2008**.

## 4. Research interests:

Synthesis and characterization of biocompatible nanoparticles and magnetic fluids; molecular modeling of biological active molecules; spectral investigations of biological active compounds in solutions; semi-quantitative analyses of nonlinear dynamics of biosignal complexity by chaos and fractal theories.

*Scientific Researcher Claudia Nădejde*